MWP

Sustainable Drainage Strategy Design Report

Broadwater Farm Estate, Tangmere (Town House), Tottenham, London, N17 6NG

OUR REF: 26015

Contents

1. Introduction 5
1.1 Development Proposal 6
1.2 Aim - Planning Permission 7
2. Topography 7
3. Existing Drainage Strategy 7
3.1 Public Drainage 7
3.2 Diversion/Abandonment 9
3.3 Pre-Development Runoff Rates 9
3.4 Greenfield Run-off Rates 9
3.5 Proposed Discharged rates. 10
4. MWP Proposed Drainage Strategy 10
4.1 SuDS Assessment 10
5. Condition 24 11
5.1 Incorporating Permeable Surfaces 12
5.2 Incorporating Green & Blue Roofs 12
5.3 Attenuation Storage 14
5.4 Controlled Rate of Surface Water Discharge (Hydrobrake) 15
6. Causeway Flow Analysis 16
7. Exceedance 16
8. Operation and Maintenance of SuDS Infrastructure 16
9. Conclusion 17

Appendices

Appendix A: MWP – Below Ground Drainage Layout ..... A
Appendix B: Topographical Survey ..... B
Appendix C: Thames Water Asset Map C
Appendix D: Sewer Abandonment Plan ..... D
Appendix E: Existing Runoff Rates Calculation ..... E
Appendix F: Greenfield Runoff Rate ..... F
Appendix G: Causeway Flow Calculation ..... G
Appendix H: Exceedance Plan ..... H
Appendix I: Operation and Maintenance of SuDS Components I
Appendix J: Thames Water S106 Consent to connect to public sewer ..... J
Appendix K: Catchment Area Plan ..... K



Proposed Redevelopment at Broadwater Farm Estate, Tangmere (Town House), 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 (Town House), Tottenham, London N17 6NG.

Planning permission has been granted to erect 2 storeys (ground floor and first floor) building comprising of 17 residential housing units 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's southern parkland is bounded by Gloucester Road to the west, the proposed Tangmere main block to the north, and the rear gardens of The Avenue terrace houses to the south. To the east, the site transitions into tarmac and concrete paving, bordered by further residential units.

The existing total site area 2724m2 is approximately 70% permeable, characterized by mostly soft landscaping in the southern portion, while the eastern section is 70% impermeable. Although the proposed scheme increases the built footprint, 28% (103m2) of the site is permeable, which is managed through the following integrated Sustainable Drainage Systems (SuDS):

- Soft Landscaping: Inclusion of lawn areas at the rear of the site.
- Source Control: Strategically placed permeable zones designed to intercept and infiltrate surface water runoff.

Please refer to the Catchment Area Plan in Appendix K and below-ground drainage strategy drawing by MWP in Appendix A.

1.1 Development Proposal

The proposed development involves the construction of two -storey (comprising ground plus first floors), delivering 17 residential units and 381m². The scheme further incorporates high-quality private rear garden for each unit,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 conducted by Terrain Surveys Ltd in April 2018 confirms the site's natural gradients (see Appendix B). Within the southern portion, external levels fall from approximately 17.87m in the south to 17.06m towards the north. Similarly, levels in the eastern section fall from approximately 16.74m in the south to 16.60m in the north.

3. Existing Drainage Strategy

3.1 Public Drainage

Based on Thames Water asset records, a public surface water sewer traverses the eastern portion of the site, running from the south towards Willan Road in the north and then subsequently discharges into the culvert at the northern extent of the site. Refer to Figure 3 and Thames Water Asset map in Appendix C.

Foul Water Network

There is no foul water public sewer within the existing site.

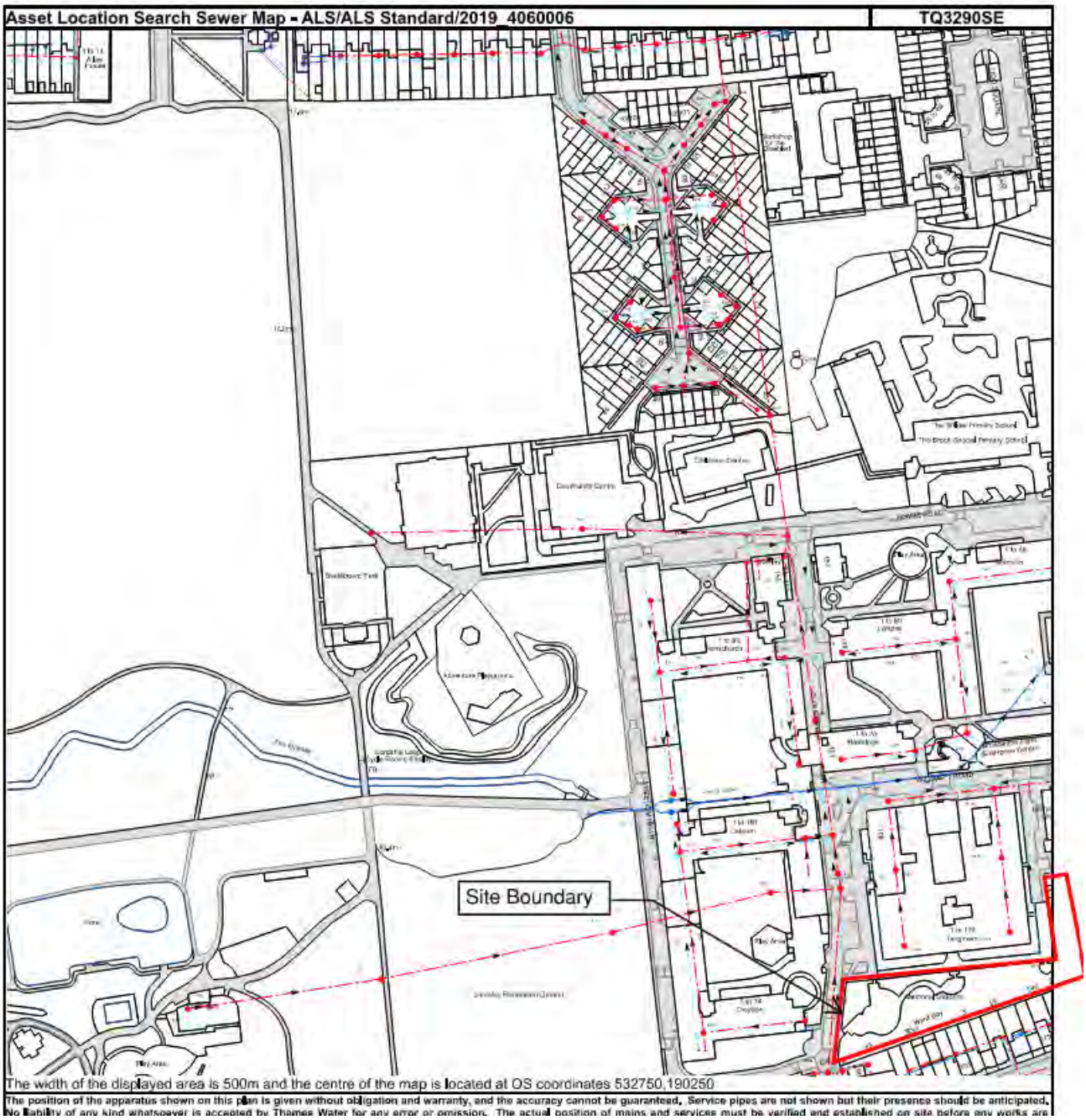


Figure 3: Thames Water Asset Map

3.2 Diversion/Abandonment

To facilitate the proposed development, redundant internal drainage assets within the Tangmere Town House site will be diverted or decommissioned as follows:

- Internal Surface Water Infrastructure: Existing surface water runs within the site boundary will be abandoned to clear the proposed building footprint. A new head-of-run manhole will be installed to maintain network integrity.

An application to formally abandon the run is currently in progress under a Thames Water Section 116 agreement (refer to Sewer Abandonment 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

Table 1 shows the site's existing discharge rates, from the 1 in 1, 1 in 30, 1 in 100 and 1 in 100 year + 40% discharge rates calculated using the Modified Rational Method, see calculation in Appendix E.

Table 1: Impermeable Area Existing Run-off Rates

Storm Event	Discharge from permeable area of site	Discharge from impermeable	Total Discharge from Site
(1 in x yr)	(l/s)	(l/s)	(l/s)
1	0	20.31	20.31
30	0	54.96	54.96
100	0	76.22	76.22
100+40%CC	0	106.71	106.71

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	0.4	0.4	1.0	1.4	1.6

3.5 Proposed Discharged rates.

The calculated Obar Greenfield runoff rate for the site is 0.4 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 1.0 l/s.

This proposed discharge rate matches 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	20.31	1.0	95%
30	54.96	1.0	98%
100	76.22	1.0	99%
100+40%CC	106.71	1.0	99%

Table 3 shows that during rainfall, the volume of water that will be discharged post-development from the site would be controlled to 1.0 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

Surface water is collected and conveyed through a dedicated drainage network, with runoff attenuated within an underground geocellular tank. Discharge is restricted to greenfield rates using a Hydro-Brake flow control, which directs the water into a new manhole within the proposed carriageway before finally out falling into the existing Thames Water sewer on Gloucester Road

MWP has proposed a detailed strategy for the drainage at Tangmere (Town House) - 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. Table 4 shows the hierarchy and explains the reasons for feasibility/non-feasibility for the proposed drainage at the proposed building at Tangmere (Town House).

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 (1.0l/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 not been incorporated into the Townhouse building. For the following reasons:

- Structural Efficiency: "A green roof was discounted to optimize the building's structural design. The additional weight of a saturated substrate would require significantly larger foundations and a reinforced frame, increasing the project's carbon footprint and material costs beyond the benefit of the runoff attenuation provided."

- Maintenance & Long-term Viability: "A green roof is not considered viable for this development due to the lack of a permanent on-site maintenance team. To ensure the drainage strategy remains effective over the building's lifespan, lower-maintenance SuDS solutions (such as attenuation crates) have been prioritized.

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 green and 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, summarized 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

Approximately 36% (0.125 hectares) of the total area 0.272 hectares of the site will include soft landscape areas. It can be assumed that approximately 0.147 hectares of the site will be impermeable and require drainage. 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 106m^3 to 142 m^3 would be required assuming the above (with a discharge rate of 1.0 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 1.0 l/s as a discharge rate), see Figure 5 for Causeway Flow estimate.

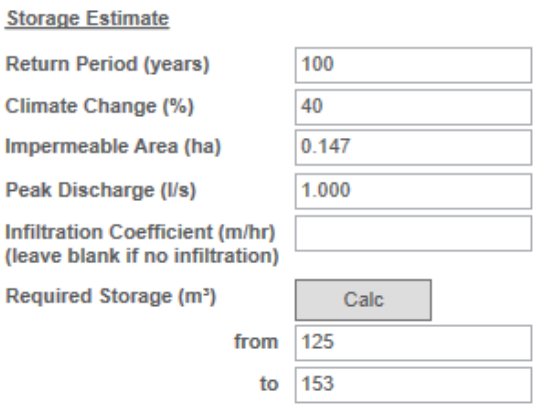


Figure 5: Causeway Flow attenuation storage estimate

The drainage network, including both underground pipes and manhole structures, provides critical internal storage that helps attenuate peak flows. By utilizing the available dead storage and pipe capacity, the system temporarily holds stormwater, effectively delaying and reducing the rate of runoff discharge.

The volume attenuated within the storage tank can therefore be reduced, we propose to provide storage of 74.87m3.

5.3.2 Attenuation Tank Location

The attenuation tank is located to the northwest of the site. 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 122.76m^2 x 0.8m deep, and assuming 97% void capacity, the tank provides 74.87m^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, existing service runs and 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 1.0l/s. To achieve this rate, a Hydrobrake (or similar flow control device) will be installed.

This discharge rate of 1.0 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, Tangmere (Town House)

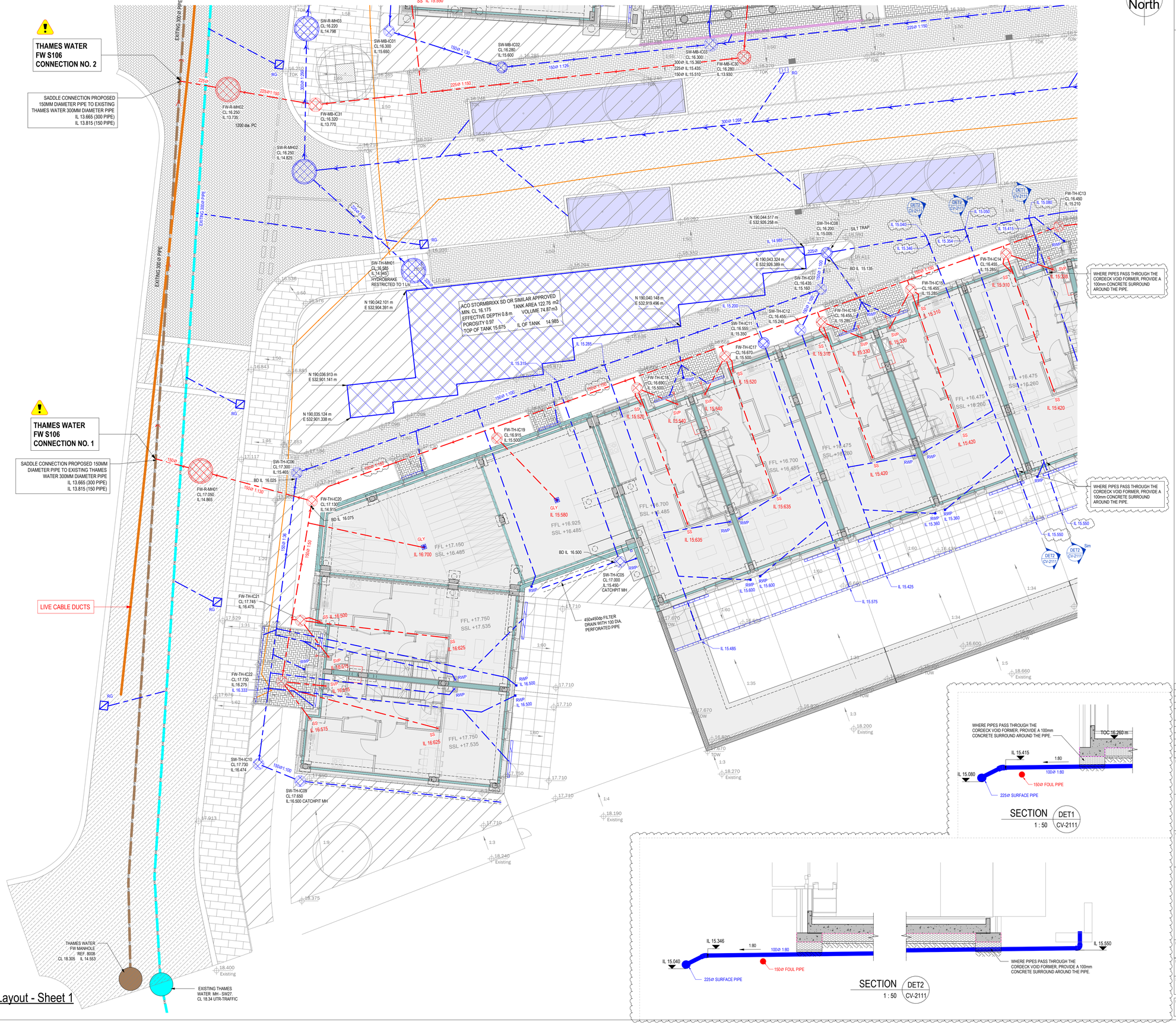
- See MWP's proposed below-ground drainage layout included in Appendix A.
- Causeway Flow modelling software has been used to simulate various storm events (up to a 1 in 100 years + 40% CC event) to support the proposed drainage strategy (see Appendix G for the report).
- All of the buildings collected 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 Proposed carriageway, at a maximum controlled rate of 1.0 l/s
- The proposed attenuation tank volume is 74.87m^3, see 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 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 condition 24 should be discharged.

Appendix A

MWP – Below Ground Drainage Layout



Site Wide Drainage Layout - Sheet 1

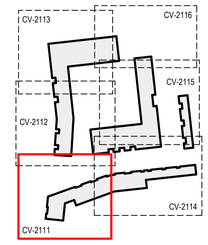
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7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

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

SECTION DET1 / CV-2111
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SECTION DET2 / CV-2111
1 : 50

REV	DATE	DESCRIPTION	BY	APP
C05	18.06.26	Revised as Clouded	VH	RS
C04	15.06.26	General Updates to Town House Drainage	TH	RS
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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 1

CLIENT:
Formation D&B Ltd

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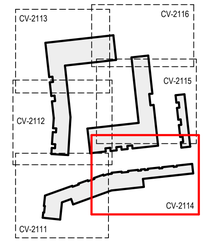
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P01	27.02.26	Issued for Information	VH	RS

PROJECT: Tangmere

TITLE: Site Wide Drainage Layout - Sheet 4

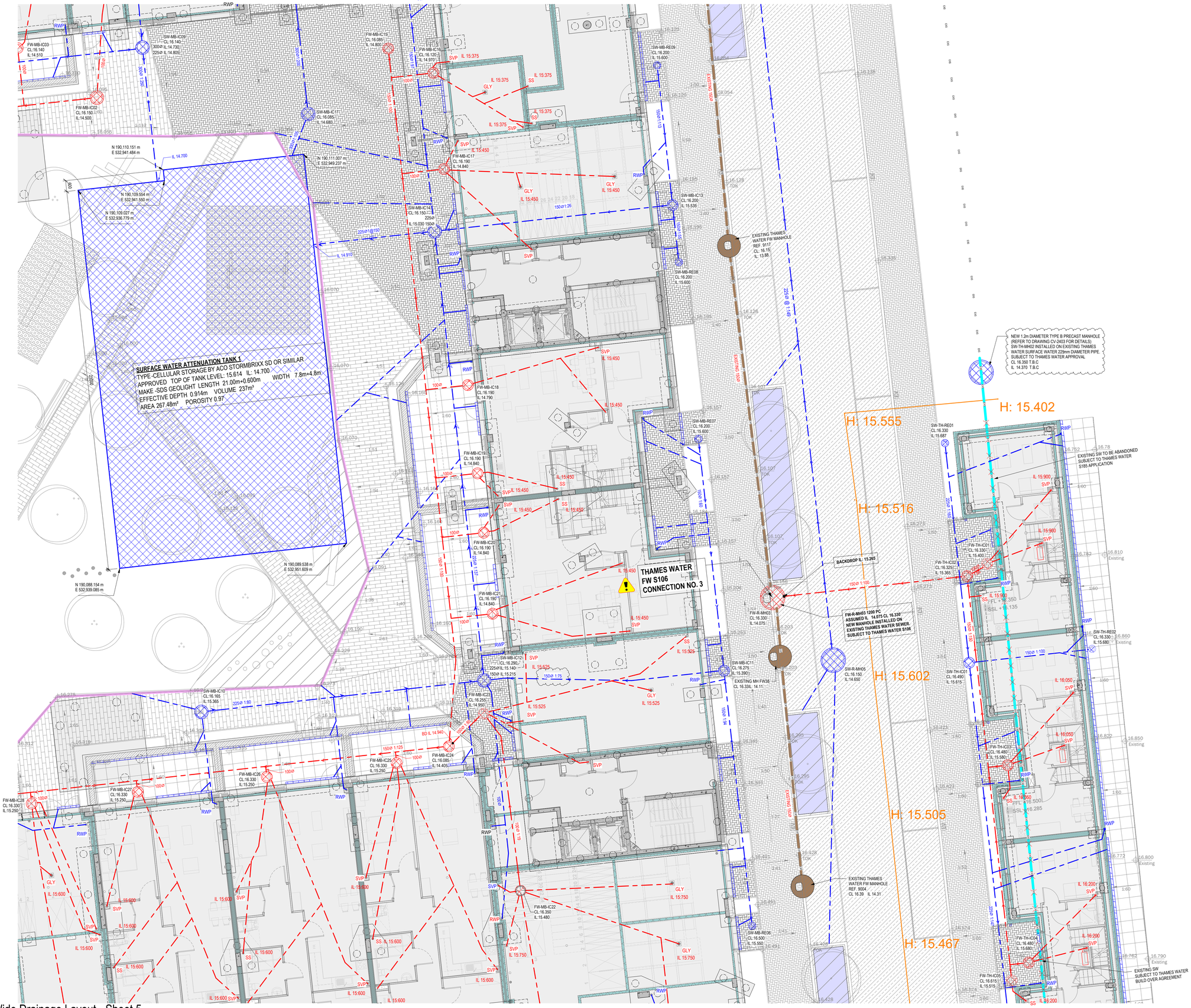
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PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	27/02/26	As indicated
STATUS DESCRIPTION: FOR CONSTRUCTION		STATUS: A
DRAWING NUMBER: TAN-MWP-XX-00-DR-CV-2114		REV: C05

Site Wide Drainage Layout - Sheet 4

SCALE 1 : 100



Site Wide Drainage Layout - Sheet 5

SCALE 1 : 100

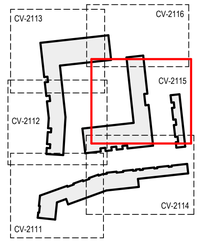
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5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS.
7. CONTRACTOR TO APPROVE ALL SET OUT INFORMATION PRIOR TO CONSTRUCTION.

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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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-2115		C04

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	14.945	D400	1.640	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

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REV	DATE	DESCRIPTION	BY	APP
C05	18.06.26	Revised as Clouded	VH	RS
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

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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		C05

Appendix B

Topographical Survey



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

Sheet Layout

Sheet 2

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	Checked by
JT	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 Assets 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

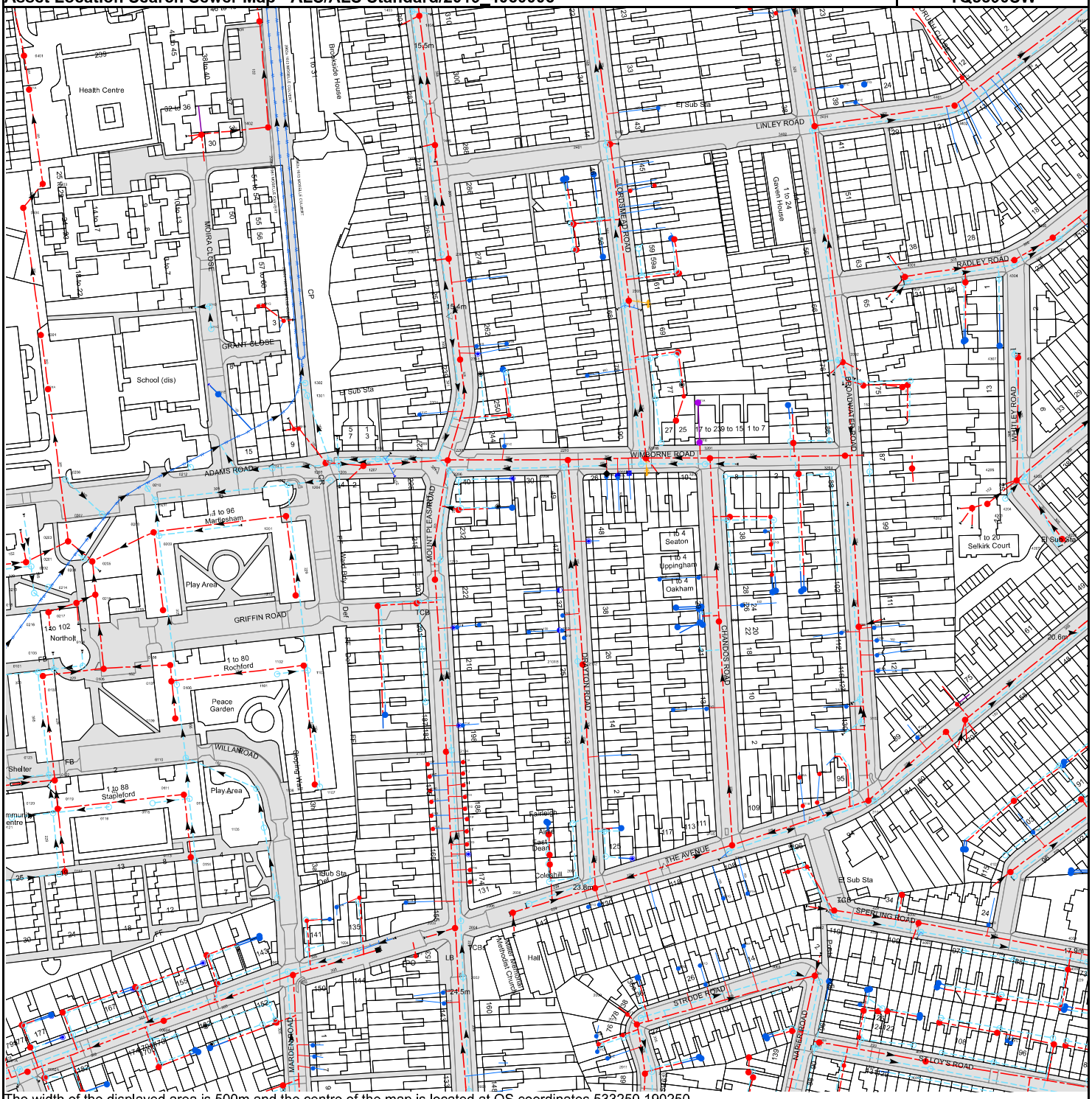
Clean Water queries

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

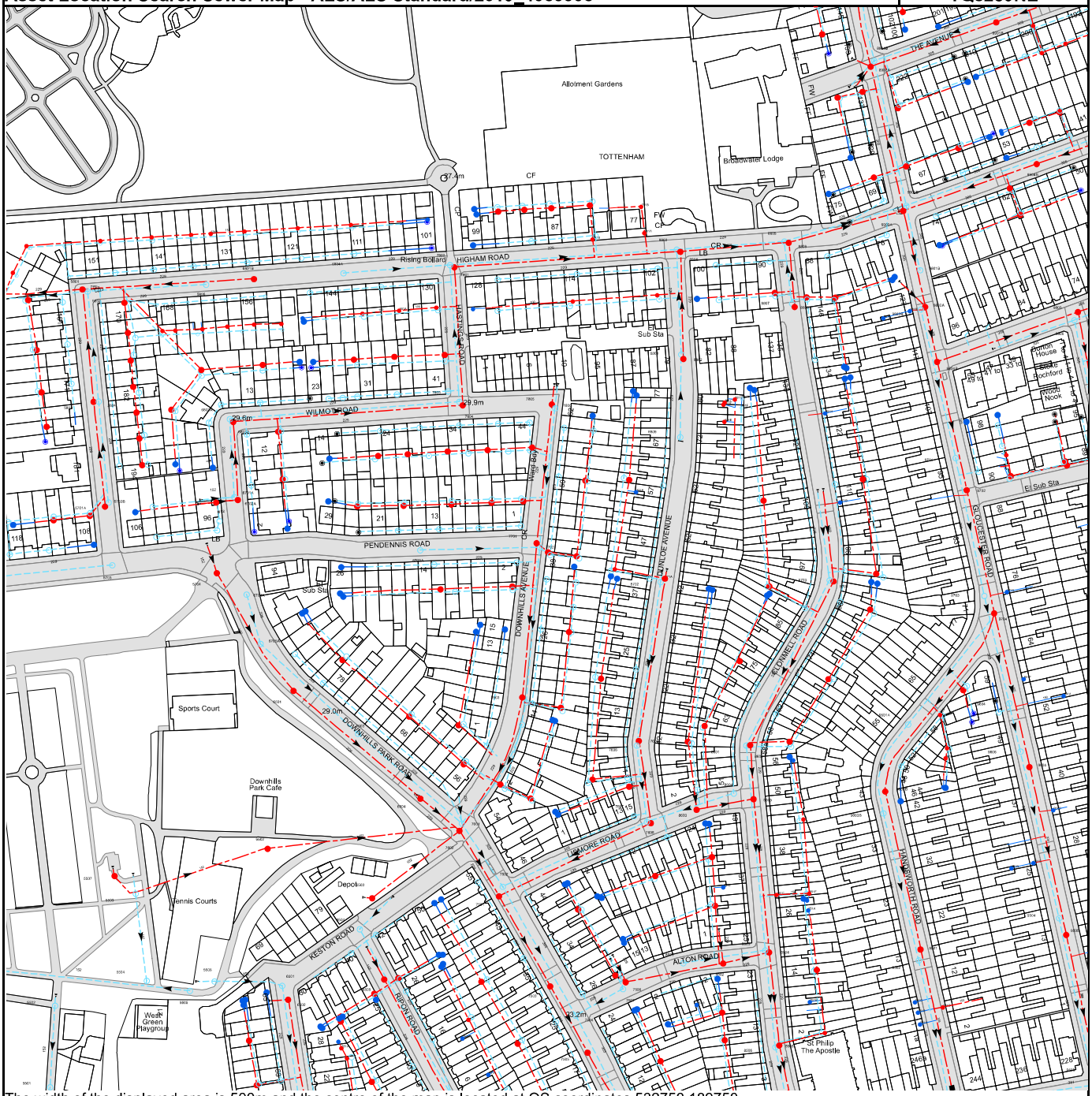
Manhole Reference	Manhole Cover Level	Manhole Invert Level
33TV	n/a	n/a
4325	n/a	n/a
3319	n/a	n/a
4324	n/a	n/a
3320	n/a	n/a
4323	n/a	n/a
3302	20.94	17.98
3301A	20.88	18.47
4308	21.11	19.18
4307	21.1	19.97
33TR	n/a	n/a
33TT	n/a	n/a
43WW	n/a	n/a
43WR	n/a	n/a
43VY	n/a	n/a
43WP	n/a	n/a
00VQ	n/a	n/a
00VV	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

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.

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

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
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

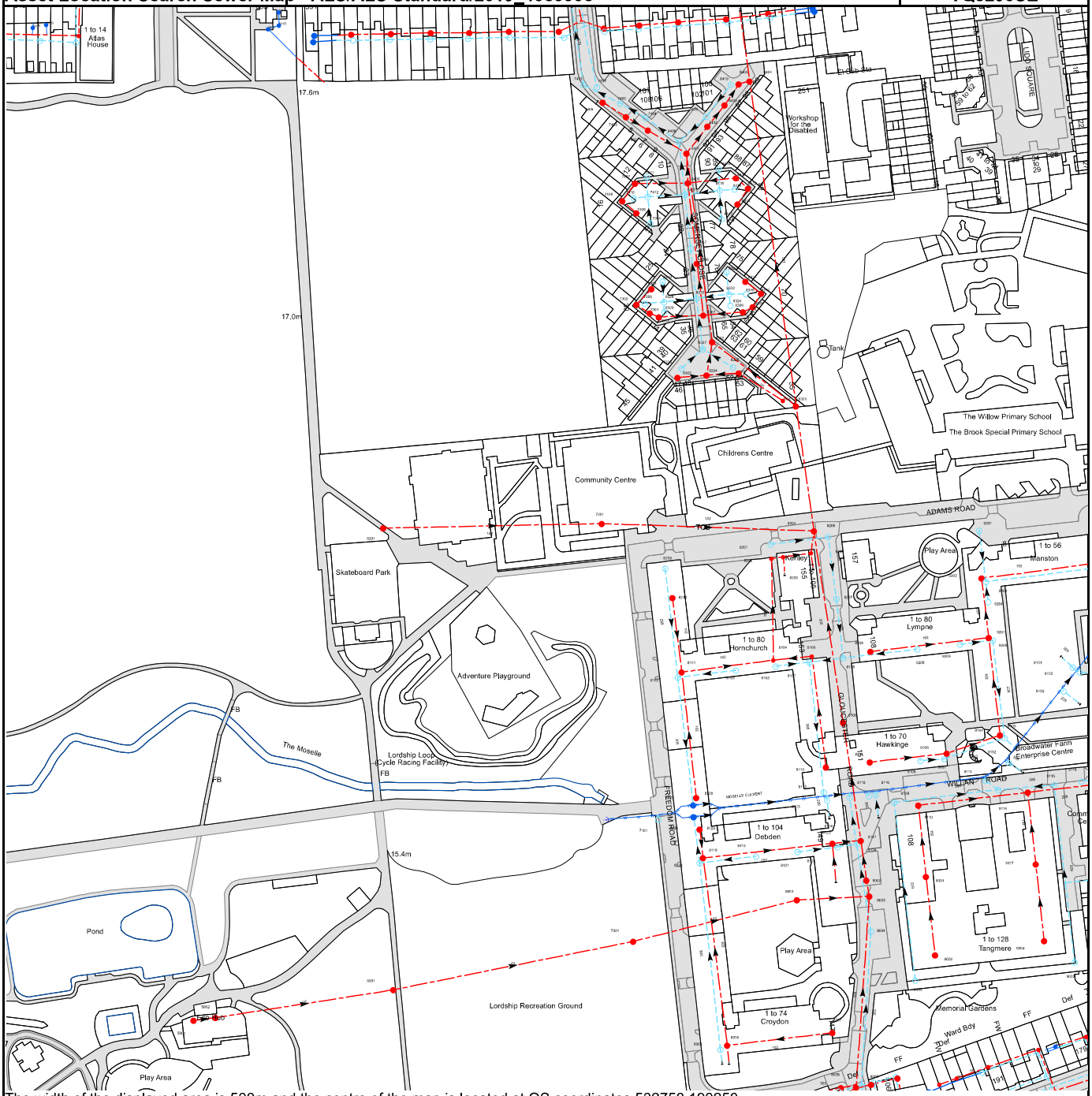
Manhole Reference	Manhole Cover Level	Manhole Invert Level
9702	25.08	23.01
86WP	n/a	n/a
87WQ	n/a	n/a
86WT	n/a	n/a
8703	25.78	24.29
86WQ	n/a	n/a
8704	25.69	22.47
87XV	n/a	n/a
87XQ	n/a	n/a
87YP	n/a	n/a
87YR	n/a	n/a
87XX	n/a	n/a
97VX	n/a	n/a
87XZ	n/a	n/a
97VW	n/a	n/a
9601A	23.51	21.78
96WX	n/a	n/a
96WR	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

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.

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

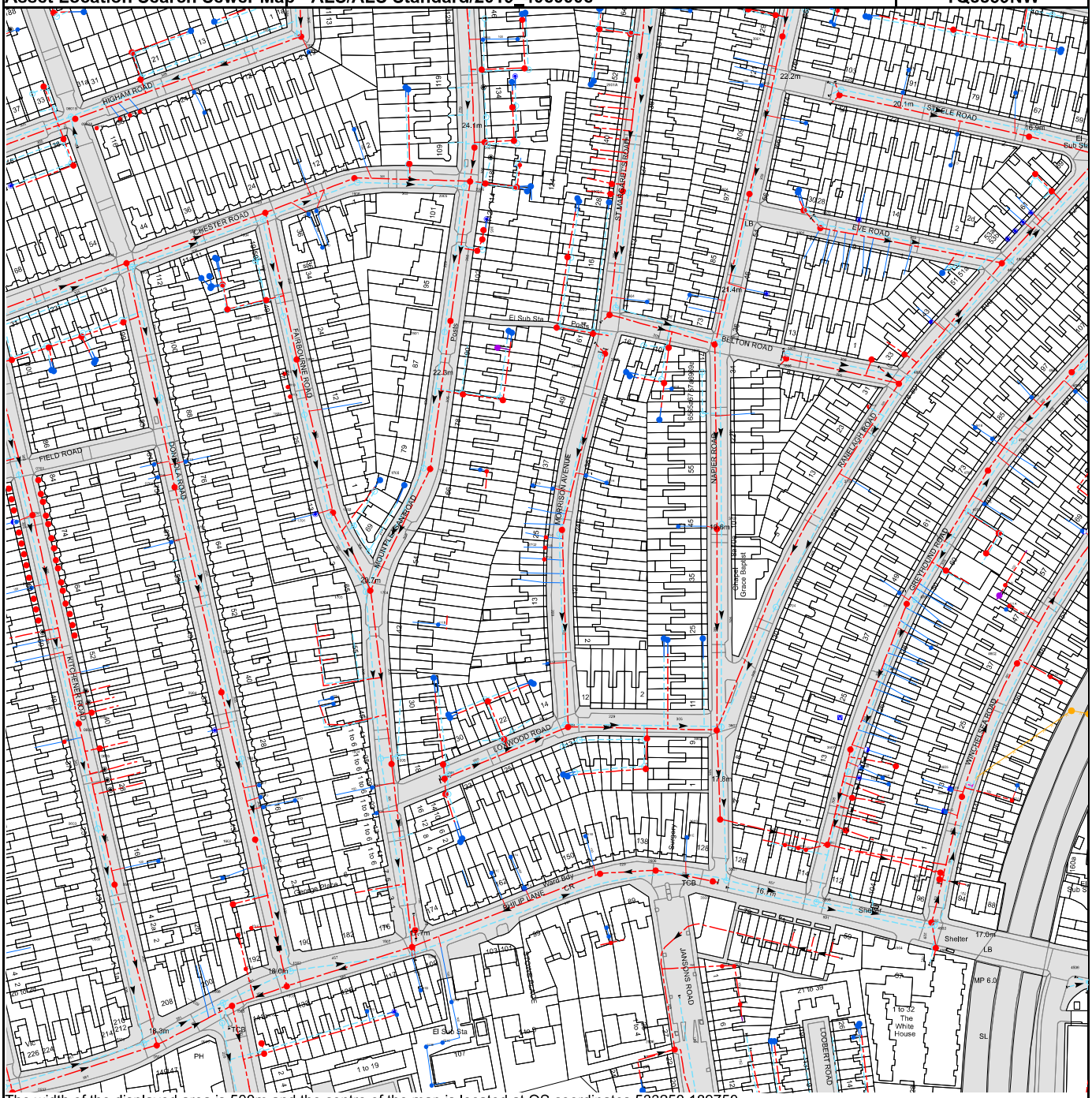
Manhole Reference	Manhole Cover Level	Manhole Invert Level
84YZ	n/a	n/a
84ZP	n/a	n/a
84ZV	n/a	n/a
8403	n/a	n/a
7405	n/a	n/a
7406	n/a	n/a
7401	n/a	n/a
7413	n/a	n/a
8410	n/a	n/a
8405	n/a	n/a
8404	n/a	n/a
64ZR	n/a	n/a
64ZP	n/a	n/a
64YZ	n/a	n/a
74ZQ	n/a	n/a
74ZS	n/a	n/a
74ZP	n/a	n/a
64ZQ	n/a	n/a
64ZW	n/a	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

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.

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.

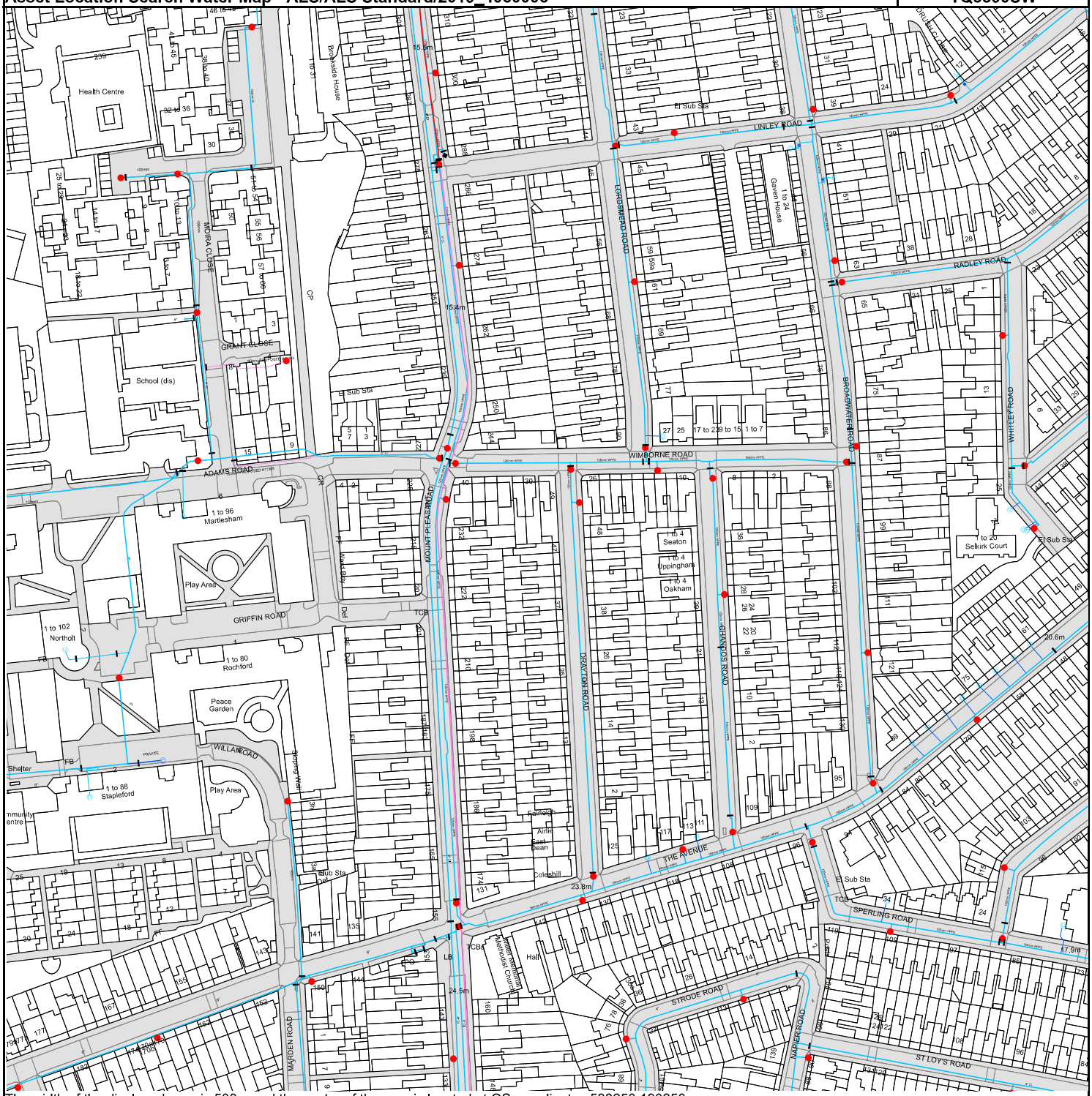
4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.

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

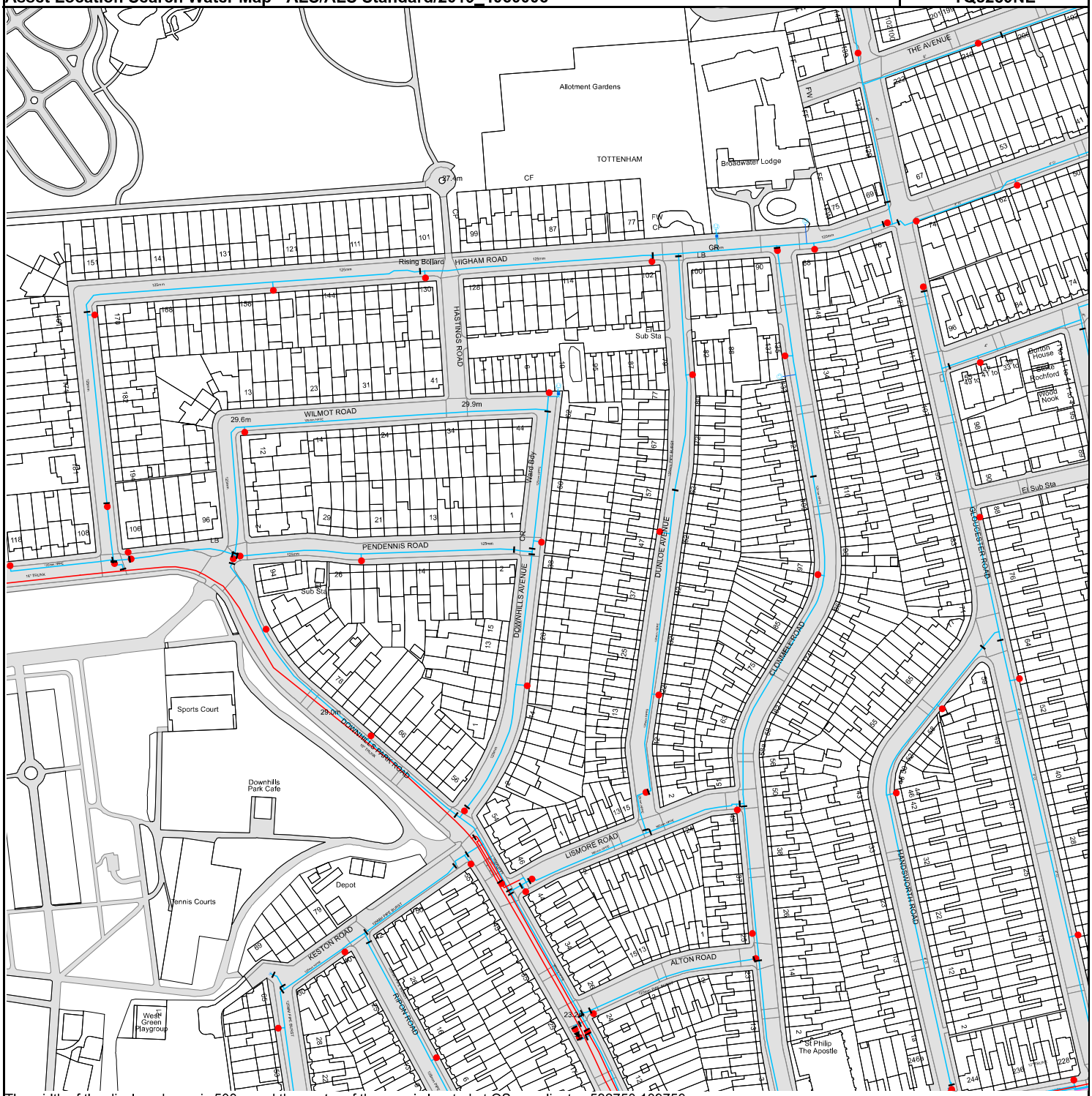


The width of the displayed area is 500m and the centre of the map is located at OS coordinates 533250,190250

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.

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



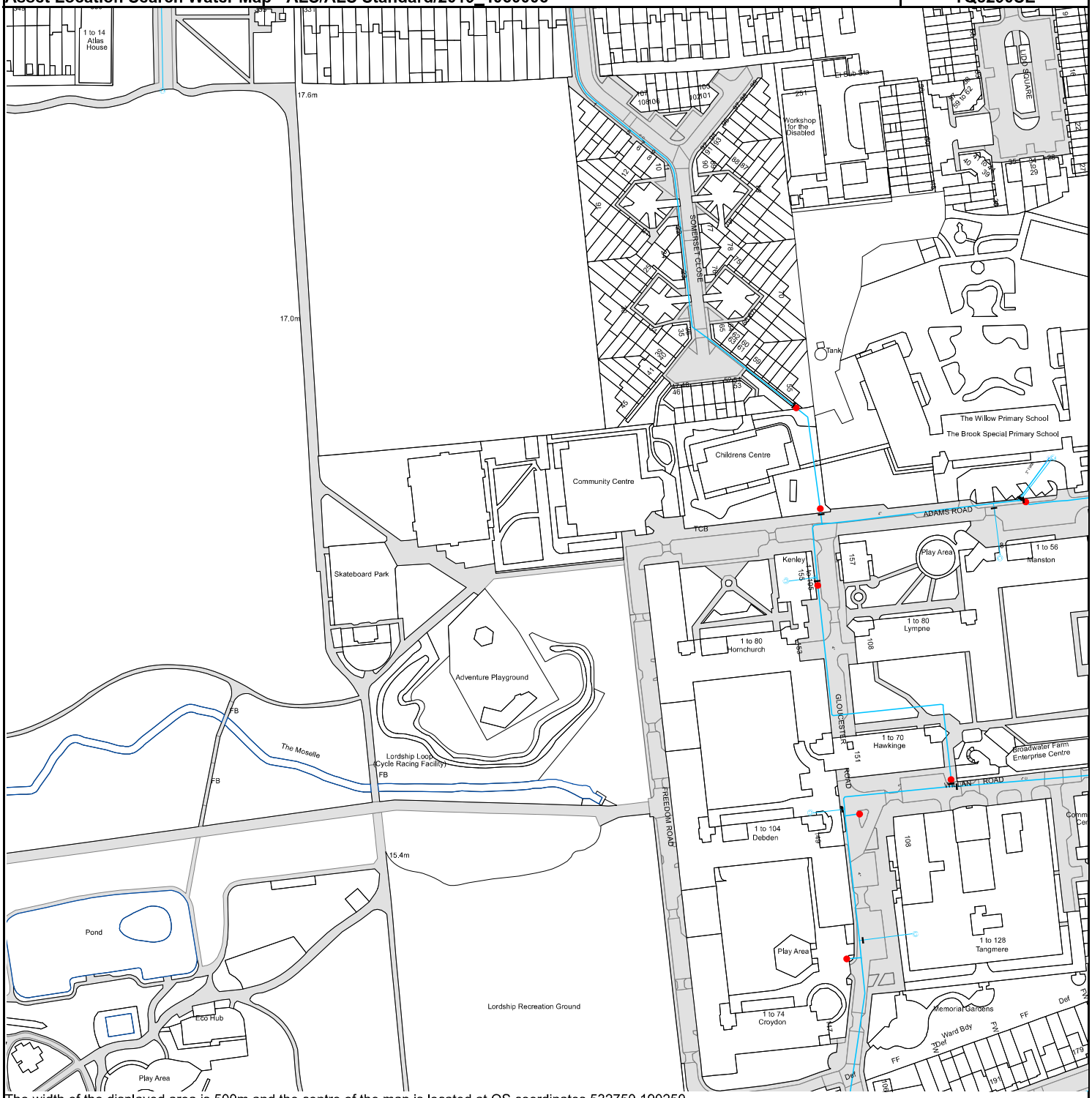
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 532750,189750

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.

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

TQ3290SE



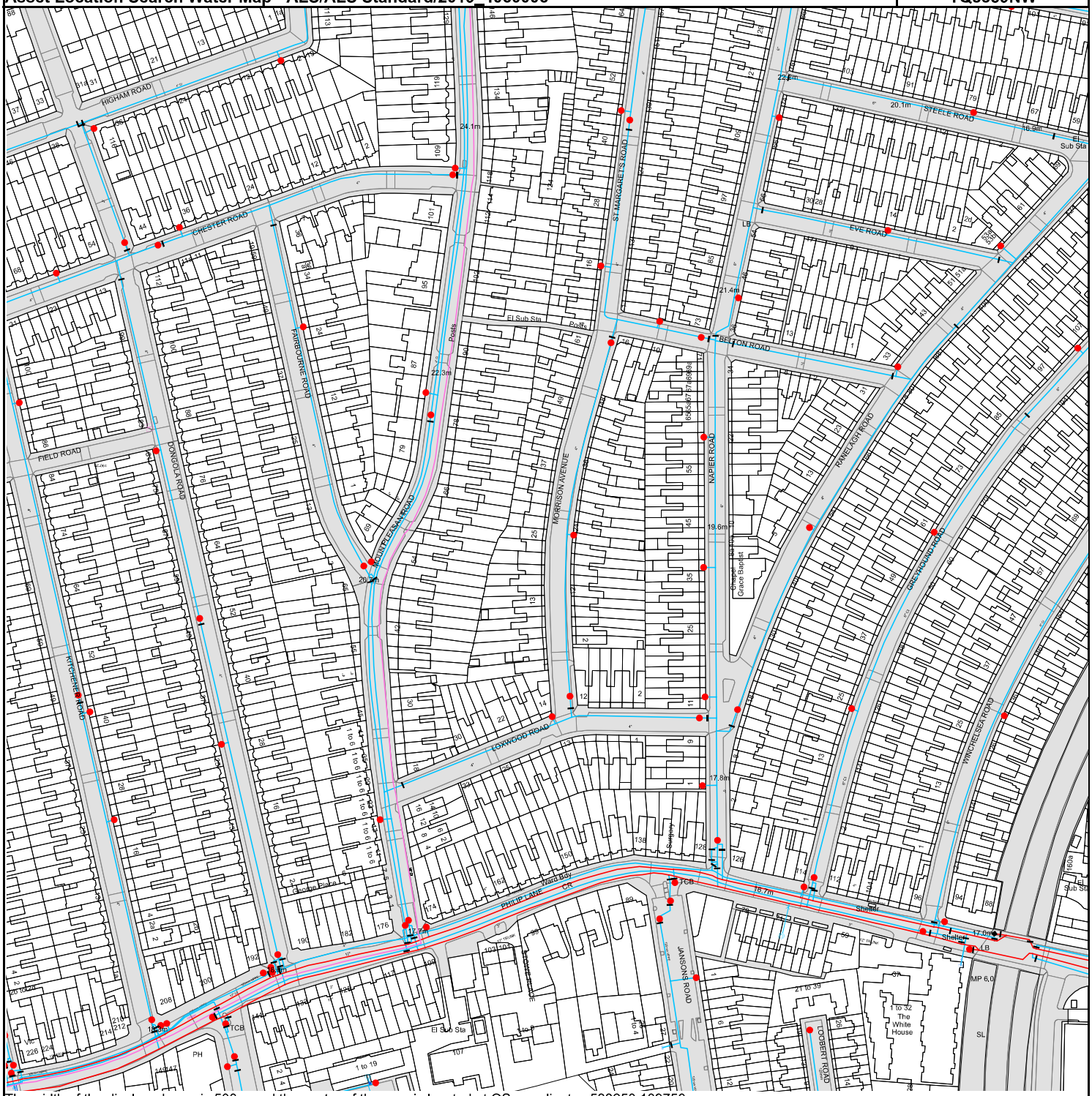
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 532750,190250

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.

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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.

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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

Complaints

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.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details

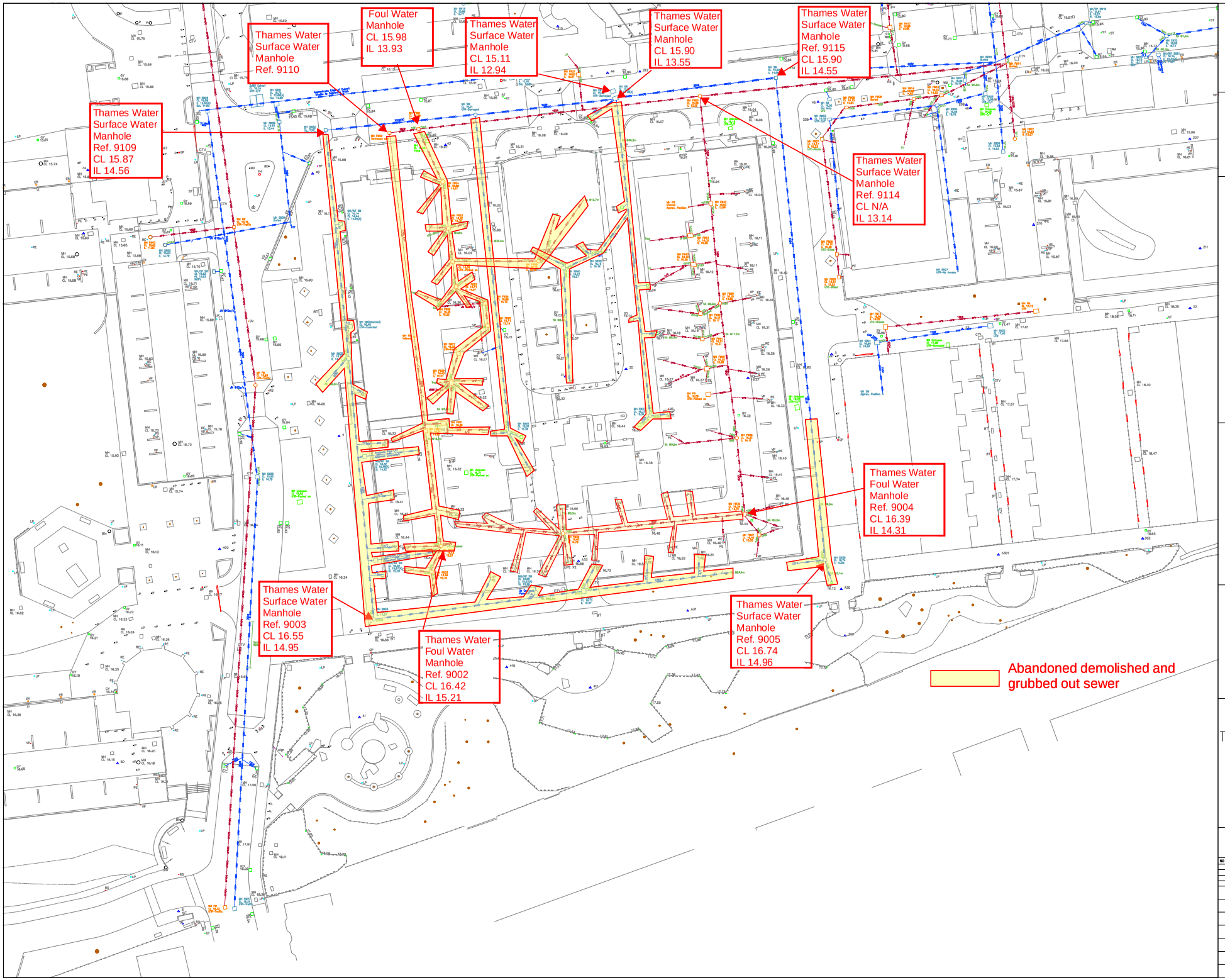
The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Web site: www.tpos.co.uk
Email: admin@tpos.co.uk

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

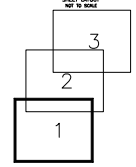
DATUM NOTES
DRAWING IS BASED ON SITE DIGITAL DATA PROVIDED BY KONSTANTINOS CARSON ARCHITECTS.
LEVELS ARE RELATED TO (= SUPPLIED DIGITAL DATA.

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 Calculation

MWP

Tangmere Town 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 =	1910	m2
Permeable area =	814	m2
Proposed Discharge from Site =	1	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	0.191	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	0.191	0.9	1	0.85	20.31
	0.191	0.9	30	2.3	54.96
	0.191	0.9	100	3.19	76.22
	0.191	0.9	100 + 40% CC	3.19	106.71

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	20.31	20.31
30	0	54.96	54.96
100	0	76.22	76.22
100+40%CC	0	106.71	106.71

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	20.31	1.00	95%
30	54.96	1.00	98%
100	76.22	1.00	99%
100+40%CC	106.71	1.00	99%

Appendix F

MWP – Greenfield Runoff Rate

Greenfield runoff rate estimation tool

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

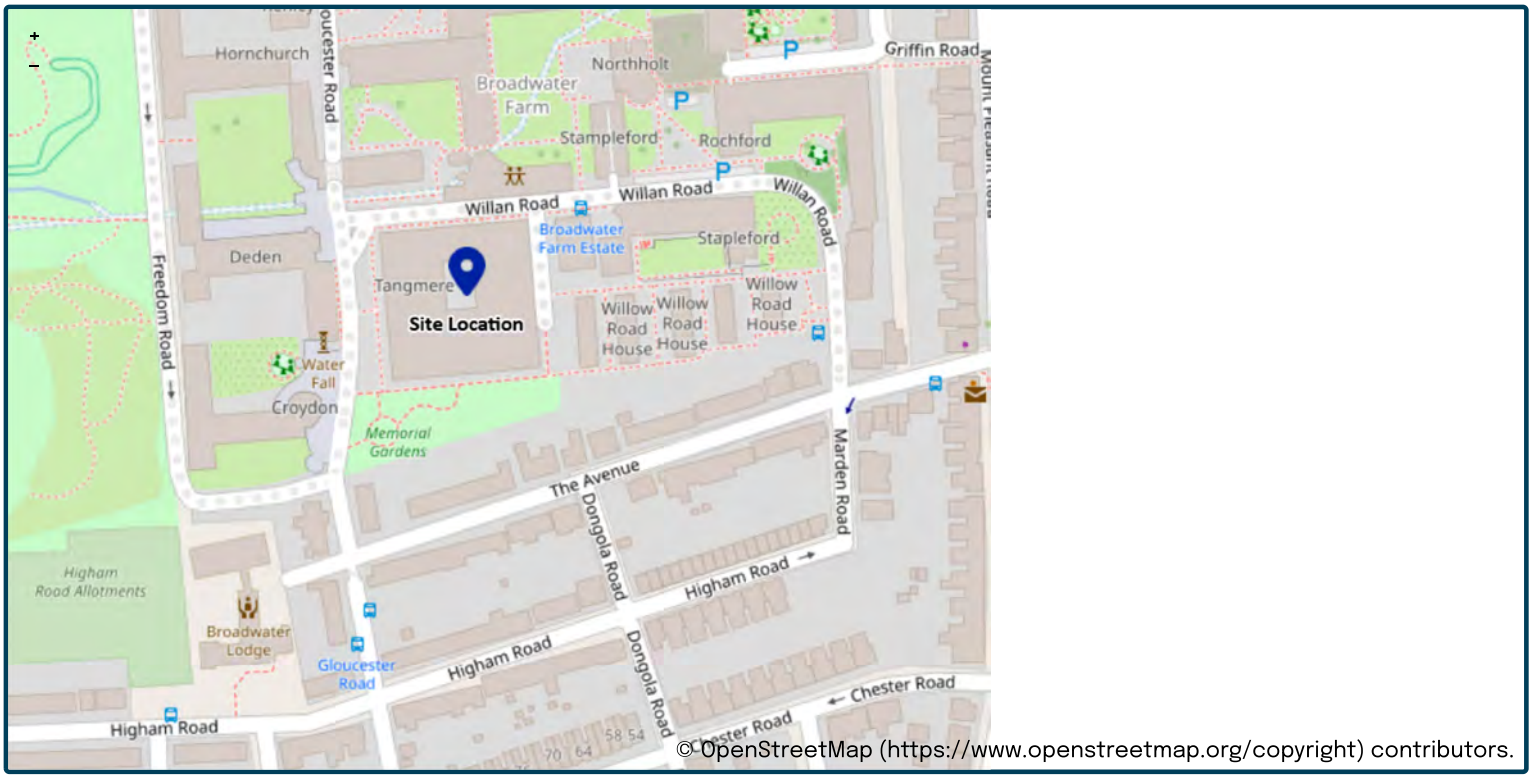
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). 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	17/03/2026
Calculated by	D.O
Reference	
Model version	2.2.3

Location

Site name	Tangmere
Site location	Haringey



Site easting (British National Grid)	532952
Site northing (British National Grid)	190088

Site details

Total site area (ha)	0.2724 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)	0.4 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)	0.4 l/s
Flow rate 2 year (l/s)	0.4 l/s
Flow rate 10 years (l/s)	0.7 l/s
Flow rate 30 years (l/s)	1.0 l/s
Flow rate 100 years (l/s)	1.4 l/s
Flow rate 200 years (l/s)	1.6 l/s

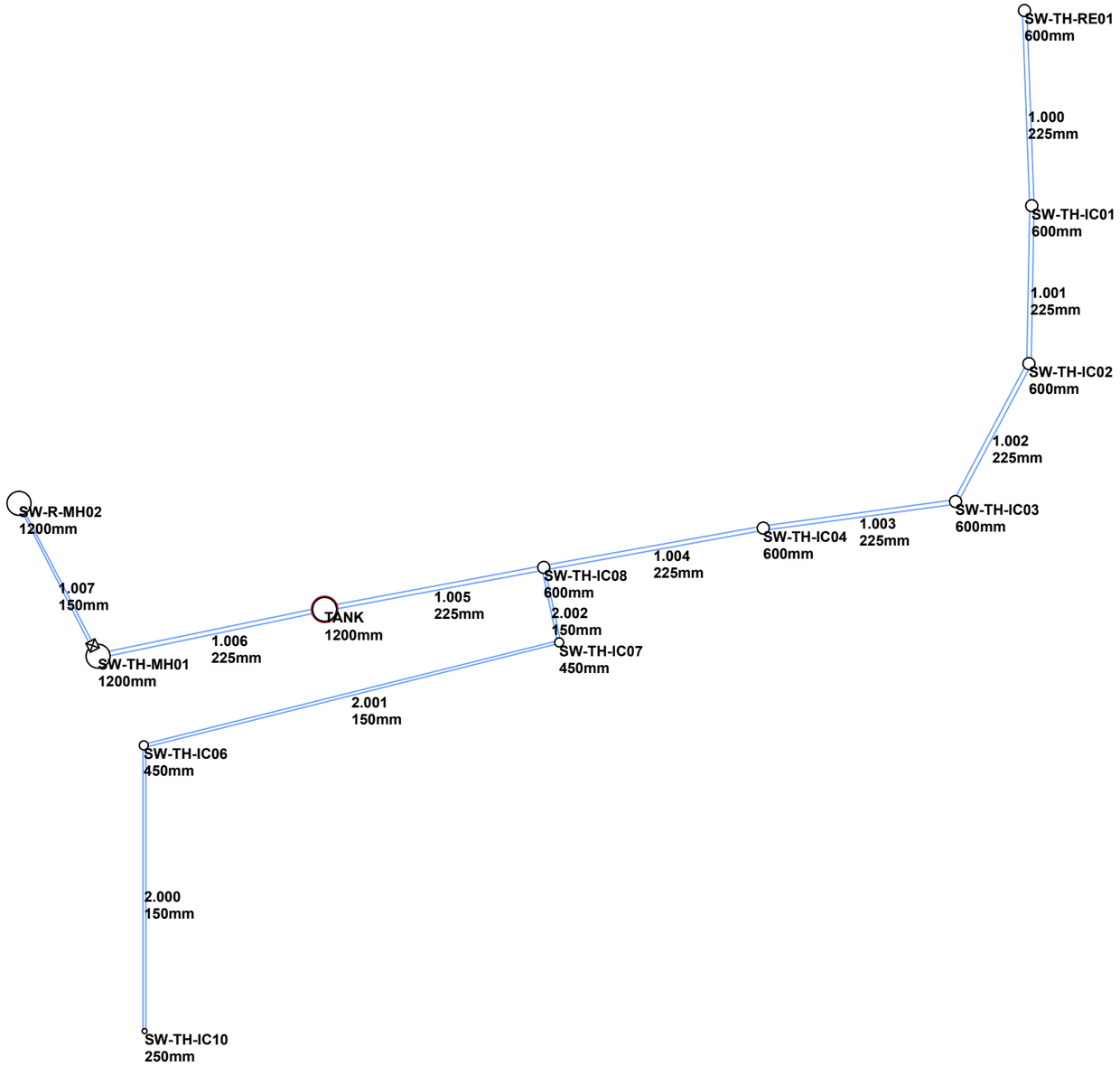
Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent 'zero' figures from being reported. Outputs less than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



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		

Adoptable Manhole Type

Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)
374	1200	749	1500
499	1350	900	1800

>900 Link+900 mm

Max Depth (m)	Diameter (mm)	Max Depth (m)	Diameter (mm)
1.500	1050	99.999	1200

Circular Link Type

Template	Freeform Carrier	Auto Increment (mm)	75
Shape	Circular	Follow Ground	x
Barrels	1		

Available Diameters (mm)

100	150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SW-TH-IC10		5.00	17.730	250	18.634	48.209	1.256	16.474
SW-TH-IC06	0.016	5.00	17.300	450	18.595	62.564	1.835	15.465
SW-TH-IC07	0.036	5.00	16.435	450	39.388	67.736	1.275	15.160
SW-TH-RE01	0.009	5.00	16.330	600	62.682	99.477	0.643	15.687
SW-TH-IC01	0.012	5.00	16.490	600	63.046	89.673	0.875	15.615
SW-TH-IC02	0.003	5.00	16.640	600	62.905	81.741	1.175	15.465
SW-TH-IC03	0.026	5.00	16.690	600	59.232	74.812	1.330	15.360
SW-TH-IC04	0.045	5.00	16.460	600	49.605	73.476	1.250	15.210
SW-TH-IC08			16.200	600	38.616	71.504	1.195	15.005
TANK			16.175	1200	27.645	69.396	1.190	14.985
SW-TH-MH01			16.585	1200	16.306	67.043	1.640	14.945
SW-R-MH02			16.250	1200	12.348	74.724	1.425	14.825

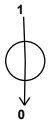
Flow+ v16.0 Copyright © 1988-2026 Causeway Technologies Ltd

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.000	16.148	36.0	150	Circular	17.730	16.474	1.106	17.300	16.025	1.125
1.003	25.540	170.3	225	Circular	16.690	15.360	1.105	16.460	15.210	1.025
1.000	11.700	162.5	225	Circular	16.330	15.687	0.418	16.490	15.615	0.650
1.001	22.100	147.3	225	Circular	16.490	15.615	0.650	16.640	15.465	0.950
1.002	9.427	89.8	225	Circular	16.640	15.465	0.950	16.690	15.360	1.105
2.001	30.554	100.2	150	Circular	17.300	15.465	1.685	16.435	15.160	1.125
1.004	34.813	169.8	225	Circular	16.460	15.210	1.025	16.200	15.005	0.970
2.002	2.500	100.0	150	Circular	16.435	15.160	1.125	16.200	15.135	0.915
1.005	1.300	65.0	225	Circular	16.200	15.005	0.970	16.175	14.985	0.965
1.006	1.000	25.0	225	Circular	16.175	14.985	0.965	16.585	14.945	1.415
1.007	8.132	67.8	225	Circular	16.585	14.945	1.415	16.250	14.825	1.200

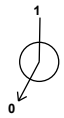
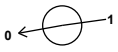
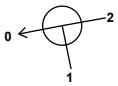
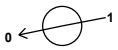
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	SW-TH-IC10	250	Manhole	Adoptable	SW-TH-IC06	450	Manhole	Adoptable
1.003	SW-TH-IC03	600	Manhole	Adoptable	SW-TH-IC04	600	Manhole	Adoptable
1.000	SW-TH-RE01	600	Manhole	Adoptable	SW-TH-IC01	600	Manhole	Adoptable
1.001	SW-TH-IC01	600	Manhole	Adoptable	SW-TH-IC02	600	Manhole	Adoptable
1.002	SW-TH-IC02	600	Manhole	Adoptable	SW-TH-IC03	600	Manhole	Adoptable
2.001	SW-TH-IC06	450	Manhole	Adoptable	SW-TH-IC07	450	Manhole	Adoptable
1.004	SW-TH-IC04	600	Manhole	Adoptable	SW-TH-IC08	600	Manhole	Adoptable
2.002	SW-TH-IC07	450	Manhole	Adoptable	SW-TH-IC08	600	Manhole	Adoptable
1.005	SW-TH-IC08	600	Manhole	Adoptable	TANK	1200	Manhole	Adoptable
1.006	TANK	1200	Manhole	Adoptable	SW-TH-MH01	1200	Manhole	Adoptable
1.007	SW-TH-MH01	1200	Manhole	Adoptable	SW-R-MH02	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW-TH-IC10	18.634	48.209	17.730	1.256	250				
						0	2.000	16.474	150
SW-TH-IC06	18.595	62.564	17.300	1.835	450	1	2.000	16.025	150
									
						0	2.001	15.465	150
SW-TH-IC07	39.388	67.736	16.435	1.275	450		1	2.001	15.160	150
							0	2.002	15.160	150
SW-TH-RE01	62.682	99.477	16.330	0.643	600				
						0	1.000	15.687	225
SW-TH-IC01	63.046	89.673	16.490	0.875	600		1	1.000	15.615	225
							0	1.001	15.615	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SW-TH-IC02	62.905	81.741	16.640	1.175	600	 1	1.001	15.465	225
						0	1.002	15.465	225
SW-TH-IC03	59.232	74.812	16.690	1.330	600	 1	1.002	15.360	225
						0	1.003	15.360	225
SW-TH-IC04	49.605	73.476	16.460	1.250	600	 1	1.003	15.210	225
						0	1.004	15.210	225
SW-TH-IC08	38.616	71.504	16.200	1.195	600	 1	2.002	15.135	150
						2	1.004	15.005	225
						0	1.005	15.005	225
TANK	27.645	69.396	16.175	1.190	1200	 1	1.005	14.985	225
						0	1.006	14.985	225
SW-TH-MH01	16.306	67.043	16.585	1.640	1200	 1	1.006	14.945	225
						0	1.007	14.945	225
SW-R-MH02	12.348	74.724	16.250	1.425	1200	 1	1.007	14.825	225

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	0.750	Drain Down Time (mins)	240	Check Discharge Volume	x
Winter CV	0.840	Additional Storage (m³/ha)	20.0		

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 SW-TH-MH01 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	14.945	Product Number	CTL-SHE-0049-1000-0800-1000
Design Depth (m)	0.800	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

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Node TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	14.985
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	89.8	89.8	0.800	89.8	116.7	0.801	0.0	116.7

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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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW-TH-IC06	10	15.492	0.027	1.3	0.0090	0.0000	OK
15 minute winter	SW-TH-IC07	10	15.214	0.054	4.2	0.0394	0.0000	OK
15 minute winter	SW-TH-RE01	11	15.708	0.021	0.7	0.0115	0.0000	OK
15 minute winter	SW-TH-IC01	10	15.646	0.031	1.7	0.0171	0.0000	OK
15 minute winter	SW-TH-IC02	11	15.493	0.028	1.8	0.0094	0.0000	OK
15 minute winter	SW-TH-IC03	11	15.407	0.047	3.9	0.0317	0.0000	OK
15 minute winter	SW-TH-IC04	11	15.274	0.064	7.3	0.0646	0.0000	OK
15 minute winter	SW-TH-IC08	9	15.181	0.176	11.3	0.0497	0.0000	OK
180 minute winter	TANK	148	15.103	0.118	5.5	10.4056	0.0000	OK
180 minute winter	SW-TH-MH01	148	15.106	0.161	4.7	0.1822	0.0000	OK
180 minute winter	SW-R-MH02	152	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.3	0.326	0.071	0.1209	
15 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.0	0.755	0.227	0.0133	
15 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.7	0.289	0.017	0.0294	
15 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.6	0.544	0.038	0.0673	
15 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.9	0.425	0.034	0.0418	
15 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	3.9	0.505	0.097	0.1964	
15 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	7.2	0.658	0.182	0.7145	
15 minute winter	SW-TH-IC08	1.005	TANK	14.2	1.614	0.220	0.0218	
180 minute winter	TANK	1.006	SW-TH-MH01	4.7	0.416	0.045	0.0257	
180 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.566	0.014	0.0130	16.7

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.36%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute winter	SW-TH-IC06	176	15.554	0.089	1.6	0.0295	0.0000	OK
180 minute winter	SW-TH-IC07	184	15.552	0.392	5.2	0.2838	0.0000	SURCHARGED
15 minute winter	SW-TH-RE01	10	15.732	0.045	3.7	0.0255	0.0000	OK
15 minute winter	SW-TH-IC01	10	15.685	0.070	8.7	0.0392	0.0000	OK
180 minute winter	SW-TH-IC02	184	15.553	0.088	2.4	0.0294	0.0000	OK
180 minute winter	SW-TH-IC03	180	15.552	0.192	5.0	0.1297	0.0000	OK
180 minute winter	SW-TH-IC04	184	15.552	0.342	9.5	0.3433	0.0000	SURCHARGED
180 minute winter	SW-TH-IC08	184	15.555	0.550	14.2	0.1558	0.0000	SURCHARGED
180 minute winter	TANK	180	15.552	0.567	13.8	49.9990	0.0000	SURCHARGED
180 minute winter	SW-TH-MH01	184	15.551	0.606	10.0	0.6857	0.0000	SURCHARGED
15 minute summer	SW-R-MH02	112	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.6	0.327	0.090	0.4342	
180 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.8	0.760	0.272	0.0440	
15 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	3.7	0.455	0.090	0.0954	
15 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	8.5	0.863	0.199	0.2182	
180 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	2.4	0.459	0.044	0.2382	
180 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	5.0	0.539	0.126	0.9699	
180 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	9.4	0.480	0.237	1.3846	
180 minute winter	SW-TH-IC08	1.005	TANK	13.8	1.077	0.214	0.0517	
180 minute winter	TANK	1.006	SW-TH-MH01	10.0	0.415	0.095	0.0398	
180 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	19.9

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 70.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute winter	SW-TH-IC06	82	15.957	0.492	4.0	0.1640	0.0000	SURCHARGED
120 minute winter	SW-TH-IC07	82	15.959	0.799	12.6	0.5786	0.0000	SURCHARGED
15 minute winter	SW-TH-RE01	12	16.133	0.446	6.9	0.2513	0.0000	FLOOD RISK
15 minute winter	SW-TH-IC01	12	16.131	0.516	15.0	0.2874	0.0000	SURCHARGED
15 minute winter	SW-TH-IC02	12	16.113	0.648	16.8	0.2164	0.0000	SURCHARGED
15 minute winter	SW-TH-IC03	12	16.101	0.741	30.4	0.4991	0.0000	SURCHARGED
15 minute winter	SW-TH-IC04	12	15.992	0.781	59.5	0.7838	0.0000	SURCHARGED
180 minute summer	SW-TH-IC08	120	15.803	0.798	32.6	0.2260	0.0000	SURCHARGED
120 minute summer	TANK	110	15.797	0.812	41.8	70.6358	0.0000	SURCHARGED
120 minute winter	SW-TH-MH01	82	15.946	1.001	9.6	1.1322	0.0000	SURCHARGED
120 minute winter	SW-R-MH02	82	14.846	0.021	1.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	3.9	0.375	0.218	0.5379	
120 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	28.8	1.637	1.623	0.0440	
15 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	6.3	0.549	0.156	0.4653	
15 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	14.6	0.928	0.342	0.8789	
15 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	17.2	0.695	0.314	0.3749	
15 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	31.1	0.782	0.783	1.0158	
15 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	58.2	1.463	1.463	1.3846	
180 minute summer	SW-TH-IC08	1.005	TANK	32.2	1.203	0.499	0.0517	
120 minute summer	TANK	1.006	SW-TH-MH01	14.0	0.433	0.134	0.0398	
120 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.1	0.595	0.017	0.0150	18.9

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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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SW-TH-IC06	11	15.491	0.026	1.2	0.0088	0.0000	OK
15 minute summer	SW-TH-IC07	11	15.213	0.053	3.9	0.0383	0.0000	OK
15 minute summer	SW-TH-RE01	11	15.708	0.021	0.7	0.0115	0.0000	OK
15 minute summer	SW-TH-IC01	11	15.645	0.030	1.6	0.0169	0.0000	OK
15 minute summer	SW-TH-IC02	11	15.493	0.028	1.8	0.0093	0.0000	OK
15 minute summer	SW-TH-IC03	11	15.406	0.046	3.7	0.0310	0.0000	OK
15 minute summer	SW-TH-IC04	11	15.273	0.063	7.0	0.0631	0.0000	OK
15 minute summer	SW-TH-IC08	9	15.174	0.169	10.7	0.0479	0.0000	OK
15 minute summer	TANK	20	15.032	0.047	15.0	4.1151	0.0000	OK
15 minute summer	SW-TH-MH01	19	15.047	0.102	4.1	0.1155	0.0000	OK
15 minute summer	SW-R-MH02	20	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.2	0.323	0.068	0.1165	
15 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	3.8	0.745	0.216	0.0129	
15 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.7	0.287	0.017	0.0290	
15 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.6	0.537	0.037	0.0660	
15 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.8	0.424	0.033	0.0406	
15 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	3.7	0.499	0.093	0.1900	
15 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	6.9	0.639	0.173	0.6848	
15 minute summer	SW-TH-IC08	1.005	TANK	15.0	1.608	0.232	0.0210	
15 minute summer	TANK	1.006	SW-TH-MH01	4.1	0.648	0.039	0.0117	
15 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.541	0.012	0.0117	4.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW-TH-IC06	10	15.492	0.027	1.3	0.0090	0.0000	OK
15 minute winter	SW-TH-IC07	10	15.214	0.054	4.2	0.0394	0.0000	OK
15 minute winter	SW-TH-RE01	11	15.708	0.021	0.7	0.0115	0.0000	OK
15 minute winter	SW-TH-IC01	10	15.646	0.031	1.7	0.0171	0.0000	OK
15 minute winter	SW-TH-IC02	11	15.493	0.028	1.8	0.0094	0.0000	OK
15 minute winter	SW-TH-IC03	11	15.407	0.047	3.9	0.0317	0.0000	OK
15 minute winter	SW-TH-IC04	11	15.274	0.064	7.3	0.0646	0.0000	OK
15 minute winter	SW-TH-IC08	9	15.181	0.176	11.3	0.0497	0.0000	OK
15 minute winter	TANK	20	15.037	0.052	14.2	4.6166	0.0000	OK
15 minute winter	SW-TH-MH01	25	15.048	0.103	4.6	0.1165	0.0000	OK
15 minute winter	SW-R-MH02	22	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.3	0.326	0.071	0.1209	
15 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.0	0.755	0.227	0.0133	
15 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.7	0.289	0.017	0.0294	
15 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.6	0.544	0.038	0.0673	
15 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.9	0.425	0.034	0.0418	
15 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	3.9	0.505	0.097	0.1964	
15 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	7.2	0.658	0.182	0.7145	
15 minute winter	SW-TH-IC08	1.005	TANK	14.2	1.614	0.220	0.0218	
15 minute winter	TANK	1.006	SW-TH-MH01	4.6	0.596	0.044	0.0122	
15 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.545	0.013	0.0119	5.1

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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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SW-TH-IC06	19	15.489	0.024	1.0	0.0080	0.0000	OK
30 minute summer	SW-TH-IC07	18	15.209	0.049	3.4	0.0358	0.0000	OK
30 minute summer	SW-TH-RE01	18	15.706	0.019	0.6	0.0107	0.0000	OK
30 minute summer	SW-TH-IC01	18	15.643	0.028	1.4	0.0157	0.0000	OK
30 minute summer	SW-TH-IC02	19	15.491	0.026	1.6	0.0087	0.0000	OK
30 minute summer	SW-TH-IC03	18	15.403	0.043	3.2	0.0288	0.0000	OK
30 minute summer	SW-TH-IC04	19	15.268	0.058	6.1	0.0585	0.0000	OK
30 minute summer	SW-TH-IC08	18	15.077	0.072	9.2	0.0203	0.0000	OK
30 minute summer	TANK	34	15.040	0.055	10.9	4.8690	0.0000	OK
30 minute summer	SW-TH-MH01	38	15.055	0.110	4.7	0.1240	0.0000	OK
30 minute summer	SW-R-MH02	29	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
30 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.309	0.056	0.1051	
30 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	3.4	0.722	0.191	0.0117	
30 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.6	0.271	0.015	0.0261	
30 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.4	0.512	0.032	0.0597	
30 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.6	0.409	0.028	0.0366	
30 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	3.2	0.480	0.080	0.1702	
30 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	5.9	0.641	0.149	0.3300	
30 minute summer	SW-TH-IC08	1.005	TANK	9.4	1.494	0.145	0.0089	
30 minute summer	TANK	1.006	SW-TH-MH01	4.7	0.420	0.045	0.0132	
30 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.547	0.013	0.0120	5.8

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
30 minute winter	SW-TH-IC06	19	15.488	0.023	0.9	0.0076	0.0000	OK
30 minute winter	SW-TH-IC07	18	15.206	0.046	3.0	0.0334	0.0000	OK
30 minute winter	SW-TH-RE01	20	15.705	0.018	0.5	0.0099	0.0000	OK
30 minute winter	SW-TH-IC01	18	15.641	0.026	1.2	0.0147	0.0000	OK
30 minute winter	SW-TH-IC02	19	15.490	0.025	1.4	0.0083	0.0000	OK
30 minute winter	SW-TH-IC03	19	15.401	0.041	2.9	0.0276	0.0000	OK
30 minute winter	SW-TH-IC04	18	15.266	0.056	5.6	0.0563	0.0000	OK
30 minute winter	SW-TH-IC08	18	15.071	0.066	8.5	0.0188	0.0000	OK
30 minute winter	TANK	33	15.048	0.063	10.1	5.5528	0.0000	OK
30 minute winter	SW-TH-MH01	30	15.059	0.114	4.9	0.1291	0.0000	OK
30 minute winter	SW-R-MH02	40	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
30 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.9	0.297	0.051	0.0962	
30 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	3.0	0.699	0.169	0.0107	
30 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.5	0.262	0.012	0.0234	
30 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.2	0.487	0.028	0.0546	
30 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.4	0.394	0.026	0.0343	
30 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	2.9	0.463	0.073	0.1612	
30 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	5.5	0.638	0.139	0.3041	
30 minute winter	SW-TH-IC08	1.005	TANK	8.5	1.437	0.132	0.0093	
30 minute winter	TANK	1.006	SW-TH-MH01	4.9	0.433	0.046	0.0145	
30 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.549	0.013	0.0121	6.5

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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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SW-TH-IC06	33	15.487	0.022	0.8	0.0072	0.0000	OK
60 minute summer	SW-TH-IC07	33	15.202	0.042	2.5	0.0301	0.0000	OK
60 minute summer	SW-TH-RE01	35	15.703	0.016	0.4	0.0089	0.0000	OK
60 minute summer	SW-TH-IC01	33	15.639	0.024	1.0	0.0135	0.0000	OK
60 minute summer	SW-TH-IC02	33	15.487	0.022	1.1	0.0073	0.0000	OK
60 minute summer	SW-TH-IC03	34	15.396	0.036	2.3	0.0245	0.0000	OK
60 minute summer	SW-TH-IC04	34	15.260	0.050	4.3	0.0498	0.0000	OK
60 minute summer	SW-TH-IC08	34	15.062	0.057	6.7	0.0162	0.0000	OK
60 minute summer	TANK	60	15.045	0.060	8.6	5.3077	0.0000	OK
60 minute summer	SW-TH-MH01	55	15.058	0.113	4.5	0.1275	0.0000	OK
60 minute summer	SW-R-MH02	60	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
60 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.8	0.295	0.045	0.0846	
60 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	2.5	0.665	0.139	0.0093	
60 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.4	0.244	0.010	0.0204	
60 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.0	0.468	0.023	0.0469	
60 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.1	0.362	0.020	0.0288	
60 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	2.3	0.432	0.057	0.1356	
60 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	4.3	0.598	0.108	0.2510	
60 minute summer	SW-TH-IC08	1.005	TANK	6.8	1.257	0.105	0.0090	
60 minute summer	TANK	1.006	SW-TH-MH01	4.5	0.418	0.044	0.0142	
60 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.549	0.013	0.0121	7.1

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
60 minute winter	SW-TH-IC06	35	15.484	0.019	0.6	0.0063	0.0000	OK
60 minute winter	SW-TH-IC07	34	15.197	0.037	2.0	0.0269	0.0000	OK
60 minute winter	SW-TH-RE01	35	15.701	0.014	0.3	0.0078	0.0000	OK
60 minute winter	SW-TH-IC01	33	15.637	0.022	0.8	0.0121	0.0000	OK
60 minute winter	SW-TH-IC02	34	15.485	0.020	0.9	0.0067	0.0000	OK
60 minute winter	SW-TH-IC03	34	15.393	0.033	1.9	0.0224	0.0000	OK
60 minute winter	SW-TH-IC04	34	15.255	0.045	3.6	0.0455	0.0000	OK
60 minute winter	SW-TH-IC08	35	15.057	0.052	5.6	0.0148	0.0000	OK
60 minute winter	TANK	60	15.054	0.069	7.8	6.0533	0.0000	OK
60 minute winter	SW-TH-MH01	59	15.062	0.117	4.7	0.1328	0.0000	OK
60 minute winter	SW-R-MH02	61	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
60 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.6	0.269	0.034	0.0713	
60 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	2.0	0.629	0.113	0.0080	
60 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.221	0.007	0.0172	
60 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.8	0.436	0.019	0.0406	
60 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.9	0.341	0.016	0.0253	
60 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.9	0.409	0.048	0.1192	
60 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	3.6	0.568	0.090	0.2201	
60 minute winter	SW-TH-IC08	1.005	TANK	5.6	1.157	0.086	0.0110	
60 minute winter	TANK	1.006	SW-TH-MH01	4.7	0.433	0.045	0.0156	
60 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.552	0.013	0.0123	7.9

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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	SW-TH-IC10	2	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SW-TH-IC06	64	15.485	0.020	0.7	0.0068	0.0000	OK
120 minute summer	SW-TH-IC07	64	15.199	0.039	2.2	0.0283	0.0000	OK
120 minute summer	SW-TH-RE01	64	15.703	0.016	0.4	0.0089	0.0000	OK
120 minute summer	SW-TH-IC01	64	15.638	0.023	0.9	0.0128	0.0000	OK
120 minute summer	SW-TH-IC02	64	15.486	0.021	1.0	0.0070	0.0000	OK
120 minute summer	SW-TH-IC03	64	15.395	0.035	2.1	0.0235	0.0000	OK
120 minute summer	SW-TH-IC04	64	15.258	0.048	4.0	0.0477	0.0000	OK
120 minute summer	SW-TH-IC08	98	15.075	0.070	6.2	0.0199	0.0000	OK
120 minute summer	TANK	100	15.075	0.090	6.6	7.9600	0.0000	OK
120 minute summer	SW-TH-MH01	94	15.080	0.135	4.5	0.1530	0.0000	OK
120 minute summer	SW-R-MH02	100	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.7	0.284	0.039	0.0773	
120 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	2.2	0.644	0.124	0.0085	
120 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.4	0.243	0.010	0.0195	
120 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.9	0.452	0.021	0.0439	
120 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.0	0.352	0.018	0.0271	
120 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	2.1	0.420	0.053	0.1277	
120 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	4.0	0.569	0.100	0.2467	
120 minute summer	SW-TH-IC08	1.005	TANK	6.1	0.994	0.094	0.0165	
120 minute summer	TANK	1.006	SW-TH-MH01	4.5	0.429	0.043	0.0198	
120 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.560	0.014	0.0126	11.9

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SW-TH-IC10	2	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute winter	SW-TH-IC06	64	15.482	0.017	0.5	0.0058	0.0000	OK
120 minute winter	SW-TH-IC07	66	15.194	0.034	1.7	0.0246	0.0000	OK
120 minute winter	SW-TH-RE01	64	15.701	0.014	0.3	0.0078	0.0000	OK
120 minute winter	SW-TH-IC01	62	15.635	0.020	0.7	0.0114	0.0000	OK
120 minute winter	SW-TH-IC02	62	15.484	0.019	0.8	0.0063	0.0000	OK
120 minute winter	SW-TH-IC03	64	15.392	0.032	1.7	0.0213	0.0000	OK
120 minute winter	SW-TH-IC04	64	15.253	0.043	3.2	0.0430	0.0000	OK
120 minute winter	SW-TH-IC08	114	15.090	0.085	4.9	0.0240	0.0000	OK
120 minute winter	TANK	114	15.090	0.105	7.6	9.2320	0.0000	OK
120 minute winter	SW-TH-MH01	116	15.094	0.149	4.5	0.1685	0.0000	OK
120 minute winter	SW-R-MH02	100	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.5	0.264	0.028	0.0630	
120 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.7	0.602	0.096	0.0071	
120 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.230	0.007	0.0162	
120 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.418	0.016	0.0372	
120 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.338	0.015	0.0234	
120 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.7	0.397	0.043	0.1101	
120 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	3.2	0.520	0.080	0.2685	
120 minute winter	SW-TH-IC08	1.005	TANK	4.8	0.881	0.075	0.0206	
120 minute winter	TANK	1.006	SW-TH-MH01	4.5	0.412	0.043	0.0230	
120 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.563	0.014	0.0128	13.5

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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	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SW-TH-IC06	96	15.484	0.019	0.6	0.0063	0.0000	OK
180 minute summer	SW-TH-IC07	96	15.196	0.036	1.9	0.0261	0.0000	OK
180 minute summer	SW-TH-RE01	96	15.701	0.014	0.3	0.0078	0.0000	OK
180 minute summer	SW-TH-IC01	92	15.635	0.020	0.7	0.0114	0.0000	OK
180 minute summer	SW-TH-IC02	96	15.484	0.019	0.8	0.0063	0.0000	OK
180 minute summer	SW-TH-IC03	96	15.392	0.032	1.7	0.0213	0.0000	OK
180 minute summer	SW-TH-IC04	96	15.254	0.044	3.3	0.0437	0.0000	OK
180 minute summer	SW-TH-IC08	136	15.089	0.084	5.2	0.0237	0.0000	OK
180 minute summer	TANK	136	15.089	0.104	5.8	9.1592	0.0000	OK
180 minute summer	SW-TH-MH01	132	15.093	0.148	4.2	0.1674	0.0000	OK
180 minute summer	SW-R-MH02	140	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.6	0.272	0.034	0.0693	
180 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.9	0.620	0.107	0.0077	
180 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.219	0.007	0.0162	
180 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.0372	
180 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.337	0.015	0.0234	
180 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.7	0.394	0.043	0.1117	
180 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	3.3	0.522	0.083	0.2655	
180 minute summer	SW-TH-IC08	1.005	TANK	5.1	0.782	0.080	0.0204	
180 minute summer	TANK	1.006	SW-TH-MH01	4.2	0.413	0.040	0.0228	
180 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.563	0.014	0.0128	14.9

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute winter	SW-TH-IC06	88	15.481	0.016	0.4	0.0052	0.0000	OK
180 minute winter	SW-TH-IC07	96	15.191	0.031	1.4	0.0222	0.0000	OK
180 minute winter	SW-TH-RE01	80	15.698	0.011	0.2	0.0064	0.0000	OK
180 minute winter	SW-TH-IC01	84	15.632	0.017	0.5	0.0097	0.0000	OK
180 minute winter	SW-TH-IC02	88	15.482	0.017	0.6	0.0056	0.0000	OK
180 minute winter	SW-TH-IC03	96	15.388	0.028	1.3	0.0187	0.0000	OK
180 minute winter	SW-TH-IC04	100	15.248	0.038	2.5	0.0381	0.0000	OK
180 minute winter	SW-TH-IC08	148	15.103	0.098	3.9	0.0277	0.0000	OK
180 minute winter	TANK	148	15.103	0.118	5.5	10.4056	0.0000	OK
180 minute winter	SW-TH-MH01	148	15.106	0.161	4.7	0.1822	0.0000	OK
180 minute winter	SW-R-MH02	152	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.249	0.023	0.0543	
180 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.4	0.571	0.079	0.0061	
180 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0125	
180 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.5	0.370	0.012	0.0299	
180 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.309	0.011	0.0194	
180 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.3	0.363	0.033	0.0922	
180 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	2.5	0.476	0.063	0.3198	
180 minute winter	SW-TH-IC08	1.005	TANK	3.9	0.798	0.060	0.0245	
180 minute winter	TANK	1.006	SW-TH-MH01	4.7	0.416	0.045	0.0257	
180 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.566	0.014	0.0130	16.7

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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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SW-TH-IC06	10	15.526	0.061	6.3	0.0204	0.0000	OK
15 minute summer	SW-TH-IC07	10	15.339	0.179	20.4	0.1297	0.0000	SURCHARGED
15 minute summer	SW-TH-RE01	10	15.731	0.044	3.5	0.0249	0.0000	OK
15 minute summer	SW-TH-IC01	10	15.683	0.068	8.2	0.0381	0.0000	OK
15 minute summer	SW-TH-IC02	10	15.527	0.062	9.3	0.0207	0.0000	OK
15 minute summer	SW-TH-IC03	10	15.469	0.109	19.5	0.0735	0.0000	OK
15 minute summer	SW-TH-IC04	11	15.388	0.178	36.9	0.1784	0.0000	OK
15 minute summer	SW-TH-IC08	21	15.242	0.236	56.3	0.0669	0.0000	SURCHARGED
15 minute summer	TANK	21	15.242	0.257	55.7	22.6449	0.0000	SURCHARGED
15 minute summer	SW-TH-MH01	23	15.242	0.297	7.1	0.3361	0.0000	SURCHARGED
15 minute summer	SW-R-MH02	112	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	6.2	0.438	0.351	0.3721	
15 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	20.1	1.149	1.134	0.0422	
15 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	3.5	0.449	0.086	0.0918	
15 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	8.1	0.850	0.189	0.2106	
15 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	9.2	0.665	0.168	0.1317	
15 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	19.2	0.729	0.483	0.6733	
15 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	36.5	1.025	0.918	1.2387	
15 minute summer	SW-TH-IC08	1.005	TANK	55.7	2.143	0.863	0.0517	
15 minute summer	TANK	1.006	SW-TH-MH01	7.1	0.623	0.068	0.0398	
15 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	13.7

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Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW-TH-IC06	10	15.528	0.063	6.6	0.0209	0.0000	OK
15 minute winter	SW-TH-IC07	10	15.347	0.187	21.4	0.1355	0.0000	SURCHARGED
15 minute winter	SW-TH-RE01	10	15.732	0.045	3.7	0.0255	0.0000	OK
15 minute winter	SW-TH-IC01	10	15.685	0.070	8.7	0.0392	0.0000	OK
15 minute winter	SW-TH-IC02	11	15.529	0.064	9.7	0.0212	0.0000	OK
15 minute winter	SW-TH-IC03	10	15.472	0.112	20.4	0.0754	0.0000	OK
15 minute winter	SW-TH-IC04	11	15.397	0.187	38.6	0.1876	0.0000	OK
15 minute winter	SW-TH-IC08	6	15.278	0.273	58.6	0.0771	0.0000	SURCHARGED
15 minute winter	TANK	21	15.271	0.286	60.8	25.2727	0.0000	SURCHARGED
15 minute winter	SW-TH-MH01	19	15.272	0.327	5.8	0.3699	0.0000	SURCHARGED
15 minute winter	SW-R-MH02	164	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	6.5	0.454	0.367	0.3755	
15 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	21.1	1.198	1.186	0.0425	
15 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	3.7	0.455	0.090	0.0954	
15 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	8.5	0.863	0.199	0.2182	
15 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	9.7	0.676	0.176	0.1361	
15 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	20.0	0.729	0.504	0.7021	
15 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	38.0	1.032	0.955	1.2942	
15 minute winter	SW-TH-IC08	1.005	TANK	57.9	2.105	0.896	0.0517	
15 minute winter	TANK	1.006	SW-TH-MH01	5.8	0.688	0.056	0.0398	
15 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	13.7

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Results for 30 year 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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SW-TH-IC06	18	15.522	0.057	5.5	0.0190	0.0000	OK
30 minute summer	SW-TH-IC07	18	15.319	0.159	17.9	0.1148	0.0000	SURCHARGED
30 minute summer	SW-TH-RE01	18	15.729	0.042	3.1	0.0235	0.0000	OK
30 minute summer	SW-TH-IC01	18	15.679	0.064	7.2	0.0358	0.0000	OK
30 minute summer	SW-TH-IC02	18	15.523	0.058	8.2	0.0195	0.0000	OK
30 minute summer	SW-TH-IC03	18	15.462	0.102	17.2	0.0689	0.0000	OK
30 minute summer	SW-TH-IC04	18	15.368	0.158	32.6	0.1583	0.0000	OK
30 minute summer	SW-TH-IC08	35	15.304	0.299	50.4	0.0847	0.0000	SURCHARGED
30 minute summer	TANK	35	15.303	0.318	49.5	28.0681	0.0000	SURCHARGED
30 minute summer	SW-TH-MH01	34	15.303	0.358	6.2	0.4053	0.0000	SURCHARGED
30 minute summer	SW-R-MH02	242	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
30 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	5.5	0.437	0.310	0.3631	
30 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	17.8	1.039	1.005	0.0437	
30 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	3.1	0.436	0.076	0.0842	
30 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	7.2	0.824	0.169	0.1933	
30 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	8.2	0.644	0.149	0.1211	
30 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	17.1	0.724	0.431	0.6040	
30 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	32.5	0.976	0.818	1.1832	
30 minute summer	SW-TH-IC08	1.005	TANK	49.3	1.714	0.763	0.0517	
30 minute summer	TANK	1.006	SW-TH-MH01	6.2	0.588	0.060	0.0398	
30 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	14.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
30 minute winter	SW-TH-IC06	18	15.519	0.054	5.0	0.0181	0.0000	OK
30 minute winter	SW-TH-IC07	34	15.345	0.185	16.2	0.1340	0.0000	SURCHARGED
30 minute winter	SW-TH-RE01	18	15.727	0.040	2.8	0.0224	0.0000	OK
30 minute winter	SW-TH-IC01	18	15.676	0.061	6.5	0.0339	0.0000	OK
30 minute winter	SW-TH-IC02	18	15.520	0.055	7.4	0.0185	0.0000	OK
30 minute winter	SW-TH-IC03	18	15.457	0.097	15.5	0.0651	0.0000	OK
30 minute winter	SW-TH-IC04	18	15.353	0.143	29.5	0.1431	0.0000	OK
30 minute winter	SW-TH-IC08	35	15.345	0.340	45.7	0.0962	0.0000	SURCHARGED
30 minute winter	TANK	34	15.343	0.358	44.6	31.5807	0.0000	SURCHARGED
30 minute winter	SW-TH-MH01	35	15.343	0.398	10.3	0.4499	0.0000	SURCHARGED
30 minute winter	SW-R-MH02	19	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
30 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	5.0	0.431	0.282	0.3445	
30 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	16.1	1.037	0.909	0.0440	
30 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	2.8	0.424	0.069	0.0782	
30 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	6.5	0.800	0.152	0.1796	
30 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	7.4	0.627	0.135	0.1125	
30 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	15.5	0.722	0.389	0.5466	
30 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	29.5	0.932	0.743	1.1457	
30 minute winter	SW-TH-IC08	1.005	TANK	44.2	1.628	0.684	0.0517	
30 minute winter	TANK	1.006	SW-TH-MH01	10.3	0.623	0.098	0.0398	
30 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	14.1

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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	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SW-TH-IC06	33	15.513	0.048	4.0	0.0161	0.0000	OK
60 minute summer	SW-TH-IC07	66	15.360	0.200	13.0	0.1451	0.0000	SURCHARGED
60 minute summer	SW-TH-RE01	33	15.723	0.036	2.3	0.0203	0.0000	OK
60 minute summer	SW-TH-IC01	33	15.670	0.055	5.3	0.0305	0.0000	OK
60 minute summer	SW-TH-IC02	33	15.515	0.050	6.1	0.0168	0.0000	OK
60 minute summer	SW-TH-IC03	33	15.446	0.086	12.6	0.0580	0.0000	OK
60 minute summer	SW-TH-IC04	65	15.360	0.150	23.8	0.1506	0.0000	OK
60 minute summer	SW-TH-IC08	66	15.361	0.356	36.6	0.1009	0.0000	SURCHARGED
60 minute summer	TANK	64	15.360	0.375	35.6	33.1009	0.0000	SURCHARGED
60 minute summer	SW-TH-MH01	64	15.360	0.415	10.6	0.4697	0.0000	SURCHARGED
60 minute summer	SW-R-MH02	34	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
60 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	4.0	0.420	0.225	0.3002	
60 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	13.0	1.005	0.731	0.0440	
60 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	2.3	0.402	0.057	0.0677	
60 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	5.3	0.754	0.124	0.1555	
60 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	6.1	0.600	0.111	0.0969	
60 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	12.5	0.692	0.316	0.4631	
60 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	23.6	0.812	0.595	1.1822	
60 minute summer	SW-TH-IC08	1.005	TANK	35.6	1.279	0.552	0.0517	
60 minute summer	TANK	1.006	SW-TH-MH01	10.6	0.565	0.101	0.0398	
60 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	15.3

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Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
60 minute winter	SW-TH-IC06	34	15.508	0.043	3.2	0.0143	0.0000	OK
60 minute winter	SW-TH-IC07	60	15.411	0.250	10.5	0.1814	0.0000	SURCHARGED
60 minute winter	SW-TH-RE01	34	15.719	0.032	1.8	0.0181	0.0000	OK
60 minute winter	SW-TH-IC01	32	15.664	0.049	4.2	0.0271	0.0000	OK
60 minute winter	SW-TH-IC02	33	15.510	0.045	4.8	0.0149	0.0000	OK
60 minute winter	SW-TH-IC03	33	15.437	0.077	10.1	0.0517	0.0000	OK
60 minute winter	SW-TH-IC04	64	15.410	0.200	19.2	0.2006	0.0000	OK
60 minute winter	SW-TH-IC08	66	15.413	0.408	29.7	0.1154	0.0000	SURCHARGED
60 minute winter	TANK	63	15.409	0.424	28.8	37.4137	0.0000	SURCHARGED
60 minute winter	SW-TH-MH01	67	15.410	0.465	7.9	0.5258	0.0000	SURCHARGED
60 minute winter	SW-R-MH02	32	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
60 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	3.2	0.404	0.180	0.3204	
60 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	10.5	0.958	0.591	0.0440	
60 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	1.8	0.373	0.044	0.0571	
60 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	4.2	0.707	0.098	0.1314	
60 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	4.8	0.558	0.087	0.0826	
60 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	10.1	0.655	0.254	0.5586	
60 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	19.2	0.741	0.482	1.3417	
60 minute winter	SW-TH-IC08	1.005	TANK	28.8	1.354	0.445	0.0517	
60 minute winter	TANK	1.006	SW-TH-MH01	7.0	0.563	0.067	0.0398	
60 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	14.6

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Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SW-TH-IC10	2	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SW-TH-IC06	64	15.504	0.039	2.7	0.0132	0.0000	OK
120 minute summer	SW-TH-IC07	122	15.453	0.293	8.9	0.2120	0.0000	SURCHARGED
120 minute summer	SW-TH-RE01	64	15.716	0.029	1.5	0.0166	0.0000	OK
120 minute summer	SW-TH-IC01	64	15.660	0.045	3.6	0.0251	0.0000	OK
120 minute summer	SW-TH-IC02	64	15.506	0.041	4.1	0.0138	0.0000	OK
120 minute summer	SW-TH-IC03	126	15.450	0.090	8.6	0.0604	0.0000	OK
120 minute summer	SW-TH-IC04	126	15.450	0.240	16.3	0.2405	0.0000	SURCHARGED
120 minute summer	SW-TH-IC08	122	15.461	0.456	24.8	0.1291	0.0000	SURCHARGED
120 minute summer	TANK	124	15.448	0.463	24.2	40.8586	0.0000	SURCHARGED
120 minute summer	SW-TH-MH01	120	15.450	0.505	7.7	0.5717	0.0000	SURCHARGED
120 minute summer	SW-R-MH02	62	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	2.7	0.384	0.152	0.3138	
120 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	8.7	0.906	0.490	0.0440	
120 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	1.5	0.350	0.037	0.0508	
120 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	3.6	0.676	0.084	0.1177	
120 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	4.1	0.533	0.075	0.0737	
120 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	8.6	0.628	0.216	0.6960	
120 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	16.3	0.581	0.409	1.3846	
120 minute summer	SW-TH-IC08	1.005	TANK	24.2	1.112	0.375	0.0517	
120 minute summer	TANK	1.006	SW-TH-MH01	6.9	0.469	0.066	0.0398	
120 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	16.7

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Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SW-TH-IC10	2	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute winter	SW-TH-IC06	122	15.512	0.047	2.1	0.0157	0.0000	OK
120 minute winter	SW-TH-IC07	122	15.510	0.350	6.9	0.2534	0.0000	SURCHARGED
120 minute winter	SW-TH-RE01	64	15.713	0.026	1.2	0.0149	0.0000	OK
120 minute winter	SW-TH-IC01	62	15.655	0.040	2.8	0.0222	0.0000	OK
120 minute winter	SW-TH-IC02	124	15.510	0.045	3.2	0.0151	0.0000	OK
120 minute winter	SW-TH-IC03	124	15.509	0.149	6.6	0.1007	0.0000	OK
120 minute winter	SW-TH-IC04	124	15.510	0.300	12.6	0.3012	0.0000	SURCHARGED
120 minute winter	SW-TH-IC08	126	15.513	0.508	19.0	0.1439	0.0000	SURCHARGED
120 minute winter	TANK	122	15.509	0.524	18.6	46.2539	0.0000	SURCHARGED
120 minute winter	SW-TH-MH01	128	15.510	0.565	12.8	0.6393	0.0000	SURCHARGED
120 minute winter	SW-R-MH02	58	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	2.1	0.362	0.118	0.3412	
120 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	6.5	0.841	0.367	0.0440	
120 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	1.2	0.332	0.030	0.0428	
120 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	2.8	0.628	0.066	0.0986	
120 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	3.2	0.501	0.058	0.1586	
120 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	6.6	0.583	0.166	0.8654	
120 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	12.6	0.553	0.317	1.3846	
120 minute winter	SW-TH-IC08	1.005	TANK	18.6	1.194	0.287	0.0517	
120 minute winter	TANK	1.006	SW-TH-MH01	11.4	0.515	0.109	0.0398	
120 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	16.8

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Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SW-TH-IC06	96	15.500	0.035	2.1	0.0116	0.0000	OK
180 minute summer	SW-TH-IC07	184	15.483	0.323	6.8	0.2339	0.0000	SURCHARGED
180 minute summer	SW-TH-RE01	96	15.713	0.026	1.2	0.0149	0.0000	OK
180 minute summer	SW-TH-IC01	96	15.655	0.040	2.8	0.0222	0.0000	OK
180 minute summer	SW-TH-IC02	96	15.502	0.037	3.2	0.0123	0.0000	OK
180 minute summer	SW-TH-IC03	184	15.483	0.123	6.6	0.0828	0.0000	OK
180 minute summer	SW-TH-IC04	188	15.484	0.274	12.4	0.2745	0.0000	SURCHARGED
180 minute summer	SW-TH-IC08	184	15.483	0.478	18.6	0.1352	0.0000	SURCHARGED
180 minute summer	TANK	184	15.483	0.498	18.2	43.9040	0.0000	SURCHARGED
180 minute summer	SW-TH-MH01	176	15.485	0.540	7.8	0.6103	0.0000	SURCHARGED
180 minute summer	SW-R-MH02	88	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	2.1	0.357	0.118	0.3117	
180 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	6.5	0.819	0.365	0.0440	
180 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	1.2	0.332	0.030	0.0428	
180 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	2.8	0.628	0.066	0.0986	
180 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	3.2	0.501	0.058	0.1116	
180 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	6.6	0.586	0.166	0.7910	
180 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	12.4	0.474	0.312	1.3846	
180 minute summer	SW-TH-IC08	1.005	TANK	18.2	1.022	0.282	0.0517	
180 minute summer	TANK	1.006	SW-TH-MH01	6.5	0.406	0.062	0.0398	
180 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	19.3

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Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.36%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute winter	SW-TH-IC06	176	15.554	0.089	1.6	0.0295	0.0000	OK
180 minute winter	SW-TH-IC07	184	15.552	0.392	5.2	0.2838	0.0000	SURCHARGED
180 minute winter	SW-TH-RE01	92	15.710	0.023	0.9	0.0130	0.0000	OK
180 minute winter	SW-TH-IC01	96	15.650	0.035	2.1	0.0192	0.0000	OK
180 minute winter	SW-TH-IC02	184	15.553	0.088	2.4	0.0294	0.0000	OK
180 minute winter	SW-TH-IC03	180	15.552	0.192	5.0	0.1297	0.0000	OK
180 minute winter	SW-TH-IC04	184	15.552	0.342	9.5	0.3433	0.0000	SURCHARGED
180 minute winter	SW-TH-IC08	184	15.555	0.550	14.2	0.1558	0.0000	SURCHARGED
180 minute winter	TANK	180	15.552	0.567	13.8	49.9990	0.0000	SURCHARGED
180 minute winter	SW-TH-MH01	184	15.551	0.606	10.0	0.6857	0.0000	SURCHARGED
180 minute winter	SW-R-MH02	84	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.6	0.327	0.090	0.4342	
180 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.8	0.760	0.272	0.0440	
180 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.9	0.311	0.022	0.0349	
180 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	2.1	0.578	0.049	0.1651	
180 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	2.4	0.459	0.044	0.2382	
180 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	5.0	0.539	0.126	0.9699	
180 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	9.4	0.480	0.237	1.3846	
180 minute winter	SW-TH-IC08	1.005	TANK	13.8	1.077	0.214	0.0517	
180 minute winter	TANK	1.006	SW-TH-MH01	10.0	0.415	0.095	0.0398	
180 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	19.9

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Results for 100 year +40% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute summer	SW-TH-IC06	12	15.714	0.249	11.7	0.0830	0.0000	SURCHARGED
15 minute summer	SW-TH-IC07	12	15.603	0.443	35.6	0.3210	0.0000	SURCHARGED
15 minute summer	SW-TH-RE01	12	16.037	0.350	8.0	0.1968	0.0000	FLOOD RISK
15 minute summer	SW-TH-IC01	12	16.035	0.420	14.5	0.2337	0.0000	SURCHARGED
15 minute summer	SW-TH-IC02	12	16.019	0.554	22.5	0.1849	0.0000	SURCHARGED
15 minute summer	SW-TH-IC03	12	16.007	0.647	29.3	0.4361	0.0000	SURCHARGED
15 minute summer	SW-TH-IC04	12	15.906	0.696	57.8	0.6979	0.0000	SURCHARGED
15 minute summer	SW-TH-IC08	26	15.462	0.457	90.2	0.1294	0.0000	SURCHARGED
15 minute summer	TANK	21	15.460	0.475	89.0	41.8909	0.0000	SURCHARGED
15 minute summer	SW-TH-MH01	35	15.461	0.516	10.3	0.5832	0.0000	SURCHARGED
15 minute summer	SW-R-MH02	10	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	10.4	0.626	0.586	0.5379	
15 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	34.6	1.963	1.947	0.0440	
15 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	6.3	0.531	0.156	0.4653	
15 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	16.3	0.908	0.381	0.8789	
15 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	19.0	0.681	0.346	0.3749	
15 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	30.3	0.762	0.763	1.0158	
15 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	55.7	1.400	1.400	1.3846	
15 minute summer	SW-TH-IC08	1.005	TANK	89.0	2.244	1.378	0.0517	
15 minute summer	TANK	1.006	SW-TH-MH01	10.3	0.631	0.098	0.0398	
15 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	12.1

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Results for 100 year +40% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW-TH-IC06	12	15.783	0.318	12.3	0.1059	0.0000	SURCHARGED
15 minute winter	SW-TH-IC07	12	15.663	0.503	37.2	0.3639	0.0000	SURCHARGED
15 minute winter	SW-TH-RE01	12	16.133	0.446	6.9	0.2513	0.0000	FLOOD RISK
15 minute winter	SW-TH-IC01	12	16.131	0.516	15.0	0.2874	0.0000	SURCHARGED
15 minute winter	SW-TH-IC02	12	16.113	0.648	16.8	0.2164	0.0000	SURCHARGED
15 minute winter	SW-TH-IC03	12	16.101	0.741	30.4	0.4991	0.0000	SURCHARGED
15 minute winter	SW-TH-IC04	12	15.992	0.781	59.5	0.7838	0.0000	SURCHARGED
15 minute winter	SW-TH-IC08	25	15.520	0.515	94.1	0.1456	0.0000	SURCHARGED
15 minute winter	TANK	19	15.515	0.530	93.1	46.7847	0.0000	SURCHARGED
15 minute winter	SW-TH-MH01	19	15.516	0.571	7.7	0.6455	0.0000	SURCHARGED
15 minute winter	SW-R-MH02	10	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
15 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	10.8	0.611	0.606	0.5379	
15 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	35.9	2.040	2.023	0.0440	
15 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	6.3	0.549	0.156	0.4653	
15 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	14.6	0.928	0.342	0.8789	
15 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	17.2	0.695	0.314	0.3749	
15 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	31.1	0.782	0.783	1.0158	
15 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	58.2	1.463	1.463	1.3846	
15 minute winter	SW-TH-IC08	1.005	TANK	93.1	2.342	1.442	0.0517	
15 minute winter	TANK	1.006	SW-TH-MH01	6.9	0.674	0.066	0.0398	
15 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	12.1

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Results for 100 year +40% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
30 minute summer	SW-TH-IC06	19	15.690	0.225	10.3	0.0749	0.0000	SURCHARGED
30 minute summer	SW-TH-IC07	19	15.599	0.439	32.2	0.3177	0.0000	SURCHARGED
30 minute summer	SW-TH-RE01	20	15.943	0.256	6.2	0.1439	0.0000	SURCHARGED
30 minute summer	SW-TH-IC01	20	15.941	0.326	13.3	0.1816	0.0000	SURCHARGED
30 minute summer	SW-TH-IC02	20	15.927	0.462	13.9	0.1544	0.0000	SURCHARGED
30 minute summer	SW-TH-IC03	20	15.917	0.557	27.9	0.3755	0.0000	SURCHARGED
30 minute summer	SW-TH-IC04	20	15.836	0.626	51.0	0.6280	0.0000	SURCHARGED
30 minute summer	SW-TH-IC08	38	15.585	0.580	79.7	0.1641	0.0000	SURCHARGED
30 minute summer	TANK	35	15.582	0.597	78.9	52.7094	0.0000	SURCHARGED
30 minute summer	SW-TH-MH01	35	15.582	0.637	7.8	0.7209	0.0000	SURCHARGED
30 minute summer	SW-R-MH02	16	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
30 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	9.1	0.595	0.515	0.5379	
30 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	30.5	1.730	1.716	0.0440	
30 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	5.7	0.530	0.140	0.4653	
30 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	12.9	0.931	0.302	0.8789	
30 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	15.1	0.668	0.275	0.3749	
30 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	26.4	0.745	0.666	1.0158	
30 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	50.0	1.257	1.257	1.3846	
30 minute summer	SW-TH-IC08	1.005	TANK	78.9	1.985	1.222	0.0517	
30 minute summer	TANK	1.006	SW-TH-MH01	7.8	0.647	0.075	0.0398	
30 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	13.4

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Results for 100 year +40% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
30 minute winter	SW-TH-IC06	20	15.685	0.220	9.3	0.0733	0.0000	SURCHARGED
30 minute winter	SW-TH-IC07	34	15.655	0.495	29.2	0.3583	0.0000	SURCHARGED
30 minute winter	SW-TH-RE01	20	15.913	0.226	5.2	0.1271	0.0000	SURCHARGED
30 minute winter	SW-TH-IC01	20	15.910	0.295	12.1	0.1645	0.0000	SURCHARGED
30 minute winter	SW-TH-IC02	20	15.900	0.435	13.2	0.1453	0.0000	SURCHARGED
30 minute winter	SW-TH-IC03	20	15.893	0.533	24.2	0.3595	0.0000	SURCHARGED
30 minute winter	SW-TH-IC04	20	15.827	0.617	47.2	0.6185	0.0000	SURCHARGED
30 minute winter	SW-TH-IC08	35	15.657	0.652	73.5	0.1846	0.0000	SURCHARGED
30 minute winter	TANK	34	15.654	0.669	72.8	59.0321	0.0000	SURCHARGED
30 minute winter	SW-TH-MH01	34	15.654	0.709	4.6	0.8013	0.0000	SURCHARGED
30 minute winter	SW-R-MH02	35	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
30 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	8.6	0.570	0.483	0.5379	
30 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	27.6	1.565	1.552	0.0440	
30 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	5.2	0.497	0.127	0.4652	
30 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	11.6	0.893	0.271	0.8789	
30 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	12.1	0.690	0.221	0.3749	
30 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	23.9	0.737	0.602	1.0158	
30 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	46.1	1.160	1.160	1.3846	
30 minute winter	SW-TH-IC08	1.005	TANK	72.8	1.830	1.127	0.0517	
30 minute winter	TANK	1.006	SW-TH-MH01	-4.8	0.626	-0.046	0.0398	
30 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.573	0.015	0.0133	14.1

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Results for 100 year +40% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
60 minute summer	SW-TH-IC06	65	15.700	0.235	7.5	0.0781	0.0000	SURCHARGED
60 minute summer	SW-TH-IC07	63	15.703	0.543	24.3	0.3933	0.0000	SURCHARGED
60 minute summer	SW-TH-RE01	35	15.739	0.052	4.2	0.0295	0.0000	OK
60 minute summer	SW-TH-IC01	35	15.742	0.127	9.8	0.0707	0.0000	OK
60 minute summer	SW-TH-IC02	35	15.737	0.272	11.4	0.0909	0.0000	SURCHARGED
60 minute summer	SW-TH-IC03	35	15.733	0.373	21.4	0.2512	0.0000	SURCHARGED
60 minute summer	SW-TH-IC04	65	15.697	0.487	38.9	0.4887	0.0000	SURCHARGED
60 minute summer	SW-TH-IC08	65	15.703	0.698	60.3	0.1976	0.0000	SURCHARGED
60 minute summer	TANK	64	15.698	0.713	59.7	62.9199	0.0000	SURCHARGED
60 minute summer	SW-TH-MH01	63	15.698	0.753	5.0	0.8513	0.0000	SURCHARGED
60 minute summer	SW-R-MH02	64	14.844	0.019	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
60 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	7.4	0.505	0.417	0.5379	
60 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	22.8	1.297	1.286	0.0440	
60 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	4.2	0.488	0.103	0.1762	
60 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	10.0	0.872	0.234	0.6946	
60 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	10.0	0.656	0.182	0.3749	
60 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	19.1	0.734	0.482	1.0158	
60 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	38.2	0.960	0.960	1.3846	
60 minute summer	SW-TH-IC08	1.005	TANK	59.7	1.500	0.924	0.0517	
60 minute summer	TANK	1.006	SW-TH-MH01	5.0	0.604	0.048	0.0398	
60 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.578	0.015	0.0136	16.0

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Results for 100 year +40% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SW-TH-IC10	1	16.474	0.000	0.0	0.0000	0.0000	OK
60 minute winter	SW-TH-IC06	64	15.788	0.323	6.1	0.1076	0.0000	SURCHARGED
60 minute winter	SW-TH-IC07	62	15.784	0.624	19.6	0.4520	0.0000	SURCHARGED
60 minute winter	SW-TH-RE01	65	15.784	0.097	3.4	0.0549	0.0000	OK
60 minute winter	SW-TH-IC01	65	15.784	0.169	7.9	0.0943	0.0000	OK
60 minute winter	SW-TH-IC02	65	15.784	0.319	9.1	0.1066	0.0000	SURCHARGED
60 minute winter	SW-TH-IC03	65	15.784	0.424	18.4	0.2858	0.0000	SURCHARGED
60 minute winter	SW-TH-IC04	66	15.784	0.574	32.7	0.5755	0.0000	SURCHARGED
60 minute winter	SW-TH-IC08	64	15.790	0.785	49.9	0.2221	0.0000	SURCHARGED
60 minute winter	TANK	63	15.784	0.799	49.3	70.5046	0.0000	SURCHARGED
60 minute winter	SW-TH-MH01	65	15.783	0.838	5.2	0.9482	0.0000	SURCHARGED
60 minute winter	SW-R-MH02	64	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
60 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	6.0	0.427	0.341	0.5379	
60 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	18.7	1.060	1.052	0.0440	
60 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	3.4	0.461	0.084	0.2838	
60 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	8.0	0.837	0.188	0.7936	
60 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	8.7	0.644	0.159	0.3749	
60 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	16.4	0.718	0.412	1.0158	
60 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	32.3	0.811	0.811	1.3846	
60 minute winter	SW-TH-IC08	1.005	TANK	49.3	1.572	0.763	0.0517	
60 minute winter	TANK	1.006	SW-TH-MH01	5.2	0.677	0.050	0.0398	
60 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	16.7

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Results for 100 year +40% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 89.25%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	SW-TH-IC10	2	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute summer	SW-TH-IC06	110	15.799	0.334	5.2	0.1111	0.0000	SURCHARGED
120 minute summer	SW-TH-IC07	98	15.794	0.634	16.7	0.4590	0.0000	SURCHARGED
120 minute summer	SW-TH-RE01	90	15.792	0.105	2.9	0.0593	0.0000	OK
120 minute summer	SW-TH-IC01	98	15.792	0.177	6.8	0.0986	0.0000	OK
120 minute summer	SW-TH-IC02	104	15.790	0.325	7.9	0.1084	0.0000	SURCHARGED
120 minute summer	SW-TH-IC03	104	15.790	0.430	14.3	0.2897	0.0000	SURCHARGED
120 minute summer	SW-TH-IC04	92	15.788	0.578	28.0	0.5802	0.0000	SURCHARGED
120 minute summer	SW-TH-IC08	92	15.795	0.790	42.3	0.2236	0.0000	SURCHARGED
120 minute summer	TANK	110	15.797	0.812	41.8	70.6358	0.0000	SURCHARGED
120 minute summer	SW-TH-MH01	92	15.797	0.852	14.0	0.9634	0.0000	SURCHARGED
120 minute summer	SW-R-MH02	116	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	5.1	0.378	0.289	0.5379	
120 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	15.7	0.892	0.884	0.0440	
120 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	2.9	0.439	0.071	0.3018	
120 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	6.9	0.777	0.161	0.8099	
120 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	6.7	0.588	0.122	0.3749	
120 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	13.9	0.664	0.351	1.0158	
120 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	27.3	0.686	0.686	1.3846	
120 minute summer	SW-TH-IC08	1.005	TANK	41.8	1.333	0.647	0.0517	
120 minute summer	TANK	1.006	SW-TH-MH01	14.0	0.433	0.134	0.0398	
120 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	19.9

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Results for 100 year +40% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 70.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SW-TH-IC10	2	16.474	0.000	0.0	0.0000	0.0000	OK
120 minute winter	SW-TH-IC06	82	15.957	0.492	4.0	0.1640	0.0000	SURCHARGED
120 minute winter	SW-TH-IC07	82	15.959	0.799	12.6	0.5786	0.0000	SURCHARGED
120 minute winter	SW-TH-RE01	82	15.889	0.202	4.8	0.1138	0.0000	OK
120 minute winter	SW-TH-IC01	82	15.877	0.262	7.4	0.1460	0.0000	SURCHARGED
120 minute winter	SW-TH-IC02	82	15.880	0.415	9.1	0.1386	0.0000	SURCHARGED
120 minute winter	SW-TH-IC03	82	15.891	0.531	14.9	0.3578	0.0000	SURCHARGED
120 minute winter	SW-TH-IC04	82	15.928	0.718	22.1	0.7203	0.0000	SURCHARGED
120 minute winter	SW-TH-IC08	78	15.773	0.768	149.0	0.2173	0.0000	SURCHARGED
120 minute winter	TANK	80	15.785	0.800	260.5	70.5764	0.0000	SURCHARGED
120 minute winter	SW-TH-MH01	82	15.946	1.001	9.6	1.1322	0.0000	SURCHARGED
120 minute winter	SW-R-MH02	82	14.846	0.021	1.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
120 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	3.9	0.375	0.218	0.5379	
120 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	28.8	1.637	1.623	0.0440	
120 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	-3.7	0.406	-0.092	0.4506	
120 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	-5.9	0.745	-0.138	0.8789	
120 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	12.0	0.573	0.218	0.3749	
120 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	17.1	0.631	0.431	1.0158	
120 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	23.2	0.594	0.582	1.3846	
120 minute winter	SW-TH-IC08	1.005	TANK	109.8	2.761	1.700	0.0517	
120 minute winter	TANK	1.006	SW-TH-MH01	-150.7	-3.789	-1.442	0.0398	
120 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.1	0.595	0.017	0.0150	18.9

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Results for 100 year +40% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 81.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute summer	SW-TH-IC06	128	15.796	0.331	3.9	0.1104	0.0000	SURCHARGED
180 minute summer	SW-TH-IC07	152	15.795	0.635	12.6	0.4600	0.0000	SURCHARGED
180 minute summer	SW-TH-RE01	120	15.800	0.113	2.2	0.0634	0.0000	OK
180 minute summer	SW-TH-IC01	120	15.799	0.184	5.1	0.1024	0.0000	OK
180 minute summer	SW-TH-IC02	120	15.802	0.337	5.8	0.1126	0.0000	SURCHARGED
180 minute summer	SW-TH-IC03	116	15.802	0.442	10.9	0.2981	0.0000	SURCHARGED
180 minute summer	SW-TH-IC04	116	15.802	0.592	21.5	0.5942	0.0000	SURCHARGED
180 minute summer	SW-TH-IC08	120	15.803	0.798	32.6	0.2260	0.0000	SURCHARGED
180 minute summer	TANK	164	15.793	0.808	32.2	70.6386	0.0000	SURCHARGED
180 minute summer	SW-TH-MH01	120	15.817	0.872	19.8	0.9865	0.0000	SURCHARGED
180 minute summer	SW-R-MH02	120	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	3.8	0.333	0.217	0.5379	
180 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	12.0	0.770	0.673	0.0440	
180 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	4.0	0.407	0.098	0.3184	
180 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	5.5	0.712	0.130	0.8240	
180 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	5.2	0.559	0.095	0.3749	
180 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	10.5	0.587	0.264	1.0158	
180 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	21.1	0.532	0.532	1.3846	
180 minute summer	SW-TH-IC08	1.005	TANK	32.2	1.203	0.499	0.0517	
180 minute summer	TANK	1.006	SW-TH-MH01	13.5	0.486	0.129	0.0398	
180 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0141	23.1

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Results for 100 year +40% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 73.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
180 minute winter	SW-TH-IC06	116	15.801	0.336	3.0	0.1119	0.0000	SURCHARGED
180 minute winter	SW-TH-IC07	112	15.796	0.636	9.5	0.4606	0.0000	SURCHARGED
180 minute winter	SW-TH-RE01	112	15.862	0.175	1.7	0.0988	0.0000	OK
180 minute winter	SW-TH-IC01	112	15.858	0.243	7.9	0.1352	0.0000	SURCHARGED
180 minute winter	SW-TH-IC02	112	15.855	0.390	11.2	0.1302	0.0000	SURCHARGED
180 minute winter	SW-TH-IC03	112	15.848	0.488	13.2	0.3292	0.0000	SURCHARGED
180 minute winter	SW-TH-IC04	112	15.818	0.608	16.8	0.6098	0.0000	SURCHARGED
180 minute winter	SW-TH-IC08	116	15.792	0.787	25.9	0.2226	0.0000	SURCHARGED
180 minute winter	TANK	116	15.786	0.801	25.9	70.6133	0.0000	SURCHARGED
180 minute winter	SW-TH-MH01	124	15.792	0.847	30.7	0.9580	0.0000	SURCHARGED
180 minute winter	SW-R-MH02	144	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
180 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	3.7	0.326	0.210	0.5379	
180 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	9.6	0.780	0.541	0.0440	
180 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	6.2	0.375	0.153	0.4253	
180 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	10.8	0.687	0.253	0.8789	
180 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	9.5	0.522	0.174	0.3749	
180 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	10.6	0.573	0.268	1.0158	
180 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	16.5	0.553	0.415	1.3846	
180 minute winter	SW-TH-IC08	1.005	TANK	25.9	1.249	0.401	0.0517	
180 minute winter	TANK	1.006	SW-TH-MH01	21.3	0.536	0.204	0.0398	
180 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0141	23.1

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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	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SW-TH-IC06	128	15.482	0.017	0.5	0.0058	0.0000	OK
240 minute summer	SW-TH-IC07	128	15.193	0.033	1.6	0.0239	0.0000	OK
240 minute summer	SW-TH-RE01	128	15.701	0.014	0.3	0.0078	0.0000	OK
240 minute summer	SW-TH-IC01	124	15.635	0.020	0.7	0.0114	0.0000	OK
240 minute summer	SW-TH-IC02	128	15.484	0.019	0.8	0.0063	0.0000	OK
240 minute summer	SW-TH-IC03	128	15.391	0.031	1.6	0.0207	0.0000	OK
240 minute summer	SW-TH-IC04	124	15.251	0.041	3.0	0.0415	0.0000	OK
240 minute winter	SW-TH-IC08	188	15.111	0.106	3.6	0.0300	0.0000	OK
240 minute winter	TANK	188	15.111	0.126	5.9	11.1083	0.0000	OK
240 minute winter	SW-TH-MH01	176	15.113	0.168	4.5	0.1897	0.0000	OK
240 minute winter	SW-R-MH02	188	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.5	0.258	0.028	0.0609	
240 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.6	0.592	0.090	0.0068	
240 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.219	0.007	0.0162	
240 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.0372	
240 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.338	0.015	0.0228	
240 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.6	0.395	0.040	0.1051	
240 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	3.0	0.493	0.075	0.2911	
240 minute winter	SW-TH-IC08	1.005	TANK	3.5	0.745	0.054	0.0268	
240 minute winter	TANK	1.006	SW-TH-MH01	4.5	0.410	0.043	0.0272	
240 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.567	0.014	0.0130	19.3

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute winter	SW-TH-IC06	352	15.589	0.124	1.0	0.0414	0.0000	OK
360 minute winter	SW-TH-IC07	344	15.589	0.429	3.2	0.3108	0.0000	SURCHARGED
240 minute summer	SW-TH-RE01	124	15.711	0.024	1.0	0.0136	0.0000	OK
240 minute summer	SW-TH-IC01	124	15.651	0.036	2.3	0.0200	0.0000	OK
360 minute winter	SW-TH-IC02	344	15.591	0.126	1.4	0.0419	0.0000	OK
360 minute winter	SW-TH-IC03	344	15.590	0.230	3.0	0.1551	0.0000	SURCHARGED
360 minute winter	SW-TH-IC04	344	15.589	0.379	5.7	0.3801	0.0000	SURCHARGED
360 minute winter	SW-TH-IC08	360	15.590	0.585	8.1	0.1655	0.0000	SURCHARGED
360 minute winter	TANK	352	15.588	0.603	13.0	53.2377	0.0000	SURCHARGED
360 minute winter	SW-TH-MH01	360	15.587	0.642	4.3	0.7264	0.0000	SURCHARGED
240 minute summer	SW-R-MH02	116	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.284	0.056	0.5075	
360 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	3.0	0.659	0.169	0.0440	
240 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	1.0	0.316	0.024	0.0372	
240 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	2.3	0.594	0.053	0.0846	
360 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.4	0.397	0.026	0.2947	
360 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	3.0	0.459	0.075	1.0158	
360 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	5.2	0.397	0.132	1.3846	
360 minute winter	SW-TH-IC08	1.005	TANK	8.2	0.916	0.128	0.0517	
360 minute winter	TANK	1.006	SW-TH-MH01	-7.4	0.263	-0.071	0.0398	
360 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	28.8

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 66.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute winter	SW-TH-IC06	216	15.810	0.345	1.8	0.1148	0.0000	SURCHARGED
240 minute winter	SW-TH-IC07	140	15.828	0.668	7.9	0.4840	0.0000	SURCHARGED
240 minute winter	SW-TH-RE01	140	15.817	0.130	1.4	0.0733	0.0000	OK
240 minute winter	SW-TH-IC01	140	15.817	0.202	4.1	0.1126	0.0000	OK
240 minute winter	SW-TH-IC02	140	15.817	0.352	6.7	0.1175	0.0000	SURCHARGED
240 minute winter	SW-TH-IC03	140	15.817	0.457	9.5	0.3083	0.0000	SURCHARGED
240 minute winter	SW-TH-IC04	140	15.821	0.611	14.8	0.6130	0.0000	SURCHARGED
600 minute summer	SW-TH-IC08	345	15.816	0.811	13.5	0.2296	0.0000	SURCHARGED
240 minute winter	TANK	140	15.875	0.890	25.9	70.7348	0.0000	SURCHARGED
240 minute winter	SW-TH-MH01	140	15.827	0.882	9.1	0.9971	0.0000	SURCHARGED
480 minute winter	SW-R-MH02	280	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.9	0.284	0.104	0.5379	
240 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	7.7	0.714	0.432	0.0440	
240 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	2.7	0.358	0.066	0.3593	
240 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	6.4	0.641	0.151	0.8552	
240 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	6.6	0.498	0.121	0.3749	
240 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	9.3	0.535	0.233	1.0158	
240 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	15.1	0.517	0.380	1.3846	
600 minute summer	SW-TH-IC08	1.005	TANK	13.4	0.894	0.207	0.0517	
240 minute winter	TANK	1.006	SW-TH-MH01	-9.2	0.301	-0.088	0.0398	
240 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.587	0.016	0.0141	26.3

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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	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SW-TH-IC06	128	15.482	0.017	0.5	0.0058	0.0000	OK
240 minute summer	SW-TH-IC07	128	15.193	0.033	1.6	0.0239	0.0000	OK
240 minute summer	SW-TH-RE01	128	15.701	0.014	0.3	0.0078	0.0000	OK
240 minute summer	SW-TH-IC01	124	15.635	0.020	0.7	0.0114	0.0000	OK
240 minute summer	SW-TH-IC02	128	15.484	0.019	0.8	0.0063	0.0000	OK
240 minute summer	SW-TH-IC03	128	15.391	0.031	1.6	0.0207	0.0000	OK
240 minute summer	SW-TH-IC04	124	15.251	0.041	3.0	0.0415	0.0000	OK
240 minute summer	SW-TH-IC08	172	15.096	0.091	4.6	0.0257	0.0000	OK
240 minute summer	TANK	172	15.096	0.111	6.0	9.7665	0.0000	OK
240 minute summer	SW-TH-MH01	168	15.099	0.154	4.1	0.1745	0.0000	OK
240 minute summer	SW-R-MH02	172	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.5	0.258	0.028	0.0609	
240 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.6	0.592	0.090	0.0068	
240 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.219	0.007	0.0162	
240 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.0372	
240 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.338	0.015	0.0228	
240 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.6	0.395	0.040	0.1051	
240 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	3.0	0.493	0.075	0.2911	
240 minute summer	SW-TH-IC08	1.005	TANK	4.5	0.706	0.070	0.0223	
240 minute summer	TANK	1.006	SW-TH-MH01	4.1	0.409	0.039	0.0242	
240 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.565	0.014	0.0129	16.9

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute winter	SW-TH-IC06	124	15.481	0.016	0.4	0.0052	0.0000	OK
240 minute winter	SW-TH-IC07	124	15.189	0.029	1.3	0.0213	0.0000	OK
240 minute winter	SW-TH-RE01	108	15.698	0.011	0.2	0.0064	0.0000	OK
240 minute winter	SW-TH-IC01	116	15.632	0.017	0.5	0.0097	0.0000	OK
240 minute winter	SW-TH-IC02	120	15.482	0.017	0.6	0.0056	0.0000	OK
240 minute winter	SW-TH-IC03	120	15.387	0.027	1.2	0.0180	0.0000	OK
240 minute winter	SW-TH-IC04	124	15.246	0.036	2.3	0.0365	0.0000	OK
240 minute winter	SW-TH-IC08	188	15.111	0.106	3.6	0.0300	0.0000	OK
240 minute winter	TANK	188	15.111	0.126	5.9	11.1083	0.0000	OK
240 minute winter	SW-TH-MH01	176	15.113	0.168	4.5	0.1897	0.0000	OK
240 minute winter	SW-R-MH02	188	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.251	0.023	0.0518	
240 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.3	0.558	0.072	0.0058	
240 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0125	
240 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.5	0.370	0.012	0.0299	
240 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.309	0.011	0.0187	
240 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.2	0.361	0.030	0.0867	
240 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	2.3	0.452	0.057	0.3505	
240 minute winter	SW-TH-IC08	1.005	TANK	3.5	0.745	0.054	0.0268	
240 minute winter	TANK	1.006	SW-TH-MH01	4.5	0.410	0.043	0.0272	
240 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.567	0.014	0.0130	19.3

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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	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SW-TH-IC06	184	15.481	0.016	0.4	0.0052	0.0000	OK
360 minute summer	SW-TH-IC07	184	15.189	0.029	1.3	0.0213	0.0000	OK
360 minute summer	SW-TH-RE01	176	15.698	0.011	0.2	0.0064	0.0000	OK
360 minute summer	SW-TH-IC01	184	15.632	0.017	0.5	0.0097	0.0000	OK
360 minute summer	SW-TH-IC02	184	15.482	0.017	0.6	0.0056	0.0000	OK
360 minute summer	SW-TH-IC03	184	15.388	0.028	1.3	0.0187	0.0000	OK
360 minute summer	SW-TH-IC04	184	15.247	0.037	2.4	0.0372	0.0000	OK
360 minute summer	SW-TH-IC08	248	15.095	0.090	3.7	0.0254	0.0000	OK
360 minute summer	TANK	248	15.095	0.110	5.8	9.6804	0.0000	OK
360 minute summer	SW-TH-MH01	240	15.098	0.153	4.5	0.1728	0.0000	OK
360 minute summer	SW-R-MH02	248	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.250	0.023	0.0520	
360 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.3	0.559	0.073	0.0058	
360 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.206	0.005	0.0125	
360 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.5	0.370	0.012	0.0299	
360 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.308	0.011	0.0193	
360 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.3	0.369	0.033	0.0900	
360 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	2.4	0.455	0.060	0.2879	
360 minute summer	SW-TH-IC08	1.005	TANK	3.6	0.657	0.056	0.0221	
360 minute summer	TANK	1.006	SW-TH-MH01	4.5	0.402	0.043	0.0239	
360 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.564	0.014	0.0129	19.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute winter	SW-TH-IC06	168	15.479	0.014	0.3	0.0045	0.0000	OK
360 minute winter	SW-TH-IC07	184	15.186	0.026	1.0	0.0186	0.0000	OK
360 minute winter	SW-TH-RE01	176	15.698	0.011	0.2	0.0064	0.0000	OK
360 minute winter	SW-TH-IC01	176	15.631	0.016	0.4	0.0087	0.0000	OK
360 minute winter	SW-TH-IC02	176	15.480	0.015	0.5	0.0051	0.0000	OK
360 minute winter	SW-TH-IC03	192	15.385	0.025	1.0	0.0166	0.0000	OK
360 minute winter	SW-TH-IC04	192	15.242	0.032	1.8	0.0325	0.0000	OK
360 minute winter	SW-TH-IC08	264	15.109	0.104	2.8	0.0295	0.0000	OK
360 minute winter	TANK	264	15.109	0.124	5.0	10.9681	0.0000	OK
360 minute winter	SW-TH-MH01	256	15.112	0.167	4.3	0.1886	0.0000	OK
360 minute winter	SW-R-MH02	264	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.3	0.232	0.017	0.0426	
360 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.0	0.519	0.056	0.0048	
360 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0113	
360 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.4	0.342	0.009	0.0259	
360 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.5	0.305	0.009	0.0164	
360 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.0	0.344	0.025	0.0746	
360 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.8	0.417	0.045	0.3440	
360 minute winter	SW-TH-IC08	1.005	TANK	2.7	0.687	0.042	0.0263	
360 minute winter	TANK	1.006	SW-TH-MH01	4.3	0.410	0.041	0.0270	
360 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.567	0.014	0.0130	22.1

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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	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SW-TH-IC06	240	15.479	0.014	0.3	0.0045	0.0000	OK
480 minute summer	SW-TH-IC07	248	15.186	0.026	1.0	0.0187	0.0000	OK
480 minute summer	SW-TH-RE01	240	15.698	0.011	0.2	0.0064	0.0000	OK
480 minute summer	SW-TH-IC01	240	15.631	0.016	0.4	0.0087	0.0000	OK
480 minute summer	SW-TH-IC02	240	15.480	0.015	0.5	0.0051	0.0000	OK
480 minute summer	SW-TH-IC03	248	15.385	0.025	1.0	0.0166	0.0000	OK
480 minute summer	SW-TH-IC04	248	15.243	0.033	1.9	0.0334	0.0000	OK
480 minute summer	SW-TH-IC08	312	15.089	0.084	2.9	0.0238	0.0000	OK
480 minute summer	TANK	312	15.089	0.104	5.1	9.1836	0.0000	OK
480 minute summer	SW-TH-MH01	312	15.093	0.148	4.2	0.1676	0.0000	OK
480 minute summer	SW-R-MH02	312	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
480 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.3	0.231	0.017	0.0428	
480 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.0	0.521	0.056	0.0048	
480 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0113	
480 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.4	0.342	0.009	0.0259	
480 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.5	0.292	0.009	0.0164	
480 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.0	0.344	0.025	0.0763	
480 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.9	0.435	0.048	0.2668	
480 minute summer	SW-TH-IC08	1.005	TANK	3.1	0.650	0.048	0.0205	
480 minute summer	TANK	1.006	SW-TH-MH01	4.2	0.390	0.041	0.0228	
480 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.563	0.014	0.0128	21.2

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
480 minute winter	SW-TH-IC06	200	15.476	0.011	0.2	0.0038	0.0000	OK
480 minute winter	SW-TH-IC07	224	15.181	0.021	0.7	0.0156	0.0000	OK
480 minute winter	SW-TH-RE01	168	15.695	0.008	0.1	0.0047	0.0000	OK
480 minute winter	SW-TH-IC01	224	15.629	0.014	0.3	0.0077	0.0000	OK
480 minute winter	SW-TH-IC02	224	15.477	0.012	0.3	0.0040	0.0000	OK
480 minute winter	SW-TH-IC03	240	15.381	0.021	0.7	0.0140	0.0000	OK
480 minute winter	SW-TH-IC04	248	15.239	0.029	1.4	0.0288	0.0000	OK
480 minute winter	SW-TH-IC08	344	15.095	0.090	2.1	0.0256	0.0000	OK
480 minute winter	TANK	344	15.095	0.110	5.0	9.7463	0.0000	OK
480 minute winter	SW-TH-MH01	328	15.099	0.154	3.9	0.1739	0.0000	OK
480 minute winter	SW-R-MH02	344	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
480 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.224	0.011	0.0327	
480 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.7	0.472	0.039	0.0037	
480 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
480 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
480 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.249	0.005	0.0124	
480 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.7	0.305	0.018	0.0608	
480 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.4	0.396	0.035	0.2906	
480 minute winter	SW-TH-IC08	1.005	TANK	3.7	0.654	0.058	0.0223	
480 minute winter	TANK	1.006	SW-TH-MH01	3.9	0.412	0.037	0.0241	
480 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.564	0.014	0.0129	23.5

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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	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SW-TH-IC06	315	15.479	0.014	0.3	0.0045	0.0000	OK
600 minute summer	SW-TH-IC07	315	15.184	0.024	0.9	0.0177	0.0000	OK
600 minute summer	SW-TH-RE01	315	15.698	0.011	0.2	0.0064	0.0000	OK
600 minute summer	SW-TH-IC01	315	15.631	0.016	0.4	0.0087	0.0000	OK
600 minute summer	SW-TH-IC02	315	15.480	0.015	0.5	0.0051	0.0000	OK
600 minute summer	SW-TH-IC03	315	15.383	0.023	0.9	0.0157	0.0000	OK
600 minute summer	SW-TH-IC04	315	15.242	0.032	1.7	0.0316	0.0000	OK
600 minute summer	SW-TH-IC08	390	15.088	0.083	2.6	0.0235	0.0000	OK
600 minute summer	TANK	390	15.088	0.103	3.1	9.0920	0.0000	OK
600 minute summer	SW-TH-MH01	360	15.090	0.145	3.3	0.1638	0.0000	OK
600 minute summer	SW-R-MH02	390	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
600 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.3	0.232	0.017	0.0405	
600 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.9	0.506	0.051	0.0044	
600 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0113	
600 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.4	0.342	0.009	0.0259	
600 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.5	0.306	0.009	0.0156	
600 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.9	0.327	0.023	0.0707	
600 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.7	0.421	0.043	0.2626	
600 minute summer	SW-TH-IC08	1.005	TANK	2.7	0.640	0.042	0.0201	
600 minute summer	TANK	1.006	SW-TH-MH01	3.3	0.394	0.031	0.0221	
600 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.563	0.014	0.0128	22.9

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
600 minute winter	SW-TH-IC06	270	15.476	0.011	0.2	0.0038	0.0000	OK
600 minute winter	SW-TH-IC07	315	15.181	0.021	0.7	0.0156	0.0000	OK
600 minute winter	SW-TH-RE01	225	15.695	0.008	0.1	0.0047	0.0000	OK
600 minute winter	SW-TH-IC01	315	15.629	0.014	0.3	0.0077	0.0000	OK
600 minute winter	SW-TH-IC02	315	15.477	0.012	0.3	0.0040	0.0000	OK
600 minute winter	SW-TH-IC03	315	15.379	0.019	0.6	0.0130	0.0000	OK
600 minute winter	SW-TH-IC04	315	15.237	0.027	1.2	0.0268	0.0000	OK
600 minute winter	SW-TH-IC08	420	15.088	0.083	2.3	0.0234	0.0000	OK
600 minute winter	TANK	420	15.088	0.103	3.1	9.0447	0.0000	OK
600 minute winter	SW-TH-MH01	420	15.092	0.147	4.6	0.1662	0.0000	OK
600 minute winter	SW-R-MH02	405	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
600 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.208	0.011	0.0327	
600 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.7	0.472	0.039	0.0037	
600 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
600 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
600 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.0115	
600 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.6	0.283	0.015	0.0546	
600 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.2	0.376	0.030	0.2608	
600 minute winter	SW-TH-IC08	1.005	TANK	1.9	0.641	0.029	0.0200	
600 minute winter	TANK	1.006	SW-TH-MH01	4.6	0.419	0.044	0.0225	
600 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.562	0.014	0.0128	25.7

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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	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SW-TH-IC06	345	15.476	0.011	0.2	0.0038	0.0000	OK
720 minute summer	SW-TH-IC07	375	15.181	0.021	0.7	0.0156	0.0000	OK
720 minute summer	SW-TH-RE01	315	15.695	0.008	0.1	0.0047	0.0000	OK
720 minute summer	SW-TH-IC01	375	15.629	0.014	0.3	0.0077	0.0000	OK
720 minute summer	SW-TH-IC02	375	15.477	0.012	0.3	0.0040	0.0000	OK
720 minute summer	SW-TH-IC03	375	15.381	0.021	0.7	0.0140	0.0000	OK
720 minute summer	SW-TH-IC04	375	15.239	0.029	1.4	0.0288	0.0000	OK
720 minute summer	SW-TH-IC08	450	15.075	0.070	2.1	0.0199	0.0000	OK
720 minute summer	TANK	450	15.075	0.090	3.0	7.9577	0.0000	OK
720 minute summer	SW-TH-MH01	435	15.081	0.136	4.3	0.1533	0.0000	OK
720 minute summer	SW-R-MH02	450	14.843	0.018	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
720 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.208	0.011	0.0327	
720 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.7	0.472	0.039	0.0037	
720 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
720 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
720 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.234	0.005	0.0124	
720 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.7	0.297	0.018	0.0608	
720 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.4	0.409	0.035	0.2141	
720 minute summer	SW-TH-IC08	1.005	TANK	2.1	0.622	0.032	0.0165	
720 minute summer	TANK	1.006	SW-TH-MH01	4.3	0.411	0.041	0.0199	
720 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.559	0.014	0.0126	23.2

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
720 minute winter	SW-TH-IC06	345	15.476	0.011	0.2	0.0038	0.0000	OK
720 minute winter	SW-TH-IC07	345	15.180	0.020	0.6	0.0144	0.0000	OK
720 minute winter	SW-TH-RE01	270	15.695	0.008	0.1	0.0047	0.0000	OK
720 minute winter	SW-TH-IC01	270	15.626	0.011	0.2	0.0064	0.0000	OK
720 minute winter	SW-TH-IC02	270	15.475	0.010	0.2	0.0034	0.0000	OK
720 minute winter	SW-TH-IC03	345	15.378	0.018	0.5	0.0119	0.0000	OK
720 minute winter	SW-TH-IC04	345	15.235	0.025	1.0	0.0246	0.0000	OK
720 minute winter	SW-TH-IC08	480	15.079	0.074	1.6	0.0211	0.0000	OK
720 minute winter	TANK	480	15.079	0.094	3.7	8.3317	0.0000	OK
720 minute winter	SW-TH-MH01	495	15.082	0.137	4.4	0.1555	0.0000	OK
720 minute winter	SW-R-MH02	480	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
720 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.208	0.011	0.0302	
720 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.6	0.452	0.034	0.0033	
720 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
720 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
720 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.245	0.004	0.0096	
720 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.268	0.013	0.0481	
720 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.0	0.377	0.025	0.2281	
720 minute winter	SW-TH-IC08	1.005	TANK	1.6	0.605	0.025	0.0177	
720 minute winter	TANK	1.006	SW-TH-MH01	4.4	0.408	0.042	0.0206	
720 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.560	0.014	0.0127	26.8

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Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.46%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SW-TH-IC06	240	15.505	0.040	1.8	0.0134	0.0000	OK
240 minute summer	SW-TH-IC07	240	15.504	0.344	5.7	0.2491	0.0000	SURCHARGED
240 minute summer	SW-TH-RE01	124	15.711	0.024	1.0	0.0136	0.0000	OK
240 minute summer	SW-TH-IC01	124	15.651	0.036	2.3	0.0200	0.0000	OK
240 minute summer	SW-TH-IC02	244	15.502	0.037	2.6	0.0123	0.0000	OK
240 minute summer	SW-TH-IC03	244	15.502	0.142	5.5	0.0956	0.0000	OK
240 minute summer	SW-TH-IC04	240	15.503	0.293	10.3	0.2934	0.0000	SURCHARGED
240 minute summer	SW-TH-IC08	252	15.503	0.498	15.4	0.1410	0.0000	SURCHARGED
240 minute summer	TANK	244	15.502	0.517	15.1	45.6404	0.0000	SURCHARGED
240 minute summer	SW-TH-MH01	240	15.501	0.556	13.6	0.6289	0.0000	SURCHARGED
240 minute summer	SW-R-MH02	116	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.8	0.330	0.100	0.3267	
240 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	5.2	0.776	0.292	0.0440	
240 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	1.0	0.316	0.024	0.0372	
240 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	2.3	0.594	0.053	0.0846	
240 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	2.6	0.464	0.047	0.1442	
240 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	5.4	0.554	0.136	0.8443	
240 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	10.2	0.432	0.257	1.3846	
240 minute summer	SW-TH-IC08	1.005	TANK	15.1	0.991	0.233	0.0517	
240 minute summer	TANK	1.006	SW-TH-MH01	13.0	0.392	0.125	0.0398	
240 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	22.1

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Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute winter	SW-TH-IC06	240	15.570	0.105	1.3	0.0350	0.0000	OK
240 minute winter	SW-TH-IC07	236	15.572	0.412	4.2	0.2984	0.0000	SURCHARGED
240 minute winter	SW-TH-RE01	116	15.708	0.021	0.7	0.0115	0.0000	OK
240 minute winter	SW-TH-IC01	124	15.646	0.031	1.7	0.0174	0.0000	OK
240 minute winter	SW-TH-IC02	244	15.570	0.105	1.9	0.0352	0.0000	OK
240 minute winter	SW-TH-IC03	244	15.570	0.210	4.0	0.1416	0.0000	OK
240 minute winter	SW-TH-IC04	240	15.570	0.360	7.7	0.3612	0.0000	SURCHARGED
240 minute winter	SW-TH-IC08	240	15.577	0.572	11.4	0.1620	0.0000	SURCHARGED
240 minute winter	TANK	240	15.569	0.584	11.7	51.5459	0.0000	SURCHARGED
240 minute winter	SW-TH-MH01	232	15.568	0.623	11.7	0.7047	0.0000	SURCHARGED
240 minute winter	SW-R-MH02	108	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.3	0.305	0.073	0.4704	
240 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.0	0.714	0.228	0.0440	
240 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.7	0.286	0.017	0.0298	
240 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.7	0.547	0.040	0.2059	
240 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.9	0.427	0.035	0.2680	
240 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	4.0	0.506	0.101	1.0009	
240 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	7.5	0.446	0.189	1.3846	
240 minute winter	SW-TH-IC08	1.005	TANK	11.1	1.017	0.172	0.0517	
240 minute winter	TANK	1.006	SW-TH-MH01	11.7	0.396	0.112	0.0398	
240 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	22.9

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Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SW-TH-IC06	360	15.505	0.040	1.3	0.0134	0.0000	OK
360 minute summer	SW-TH-IC07	360	15.506	0.346	4.3	0.2501	0.0000	SURCHARGED
360 minute summer	SW-TH-RE01	184	15.707	0.020	0.7	0.0115	0.0000	OK
360 minute summer	SW-TH-IC01	184	15.646	0.031	1.7	0.0173	0.0000	OK
360 minute summer	SW-TH-IC02	344	15.502	0.037	1.9	0.0125	0.0000	OK
360 minute summer	SW-TH-IC03	352	15.503	0.143	4.0	0.0964	0.0000	OK
360 minute summer	SW-TH-IC04	360	15.503	0.293	7.6	0.2943	0.0000	SURCHARGED
360 minute summer	SW-TH-IC08	336	15.509	0.504	11.5	0.1427	0.0000	SURCHARGED
360 minute summer	TANK	360	15.502	0.517	11.2	45.6583	0.0000	SURCHARGED
360 minute summer	SW-TH-MH01	352	15.502	0.557	8.7	0.6304	0.0000	SURCHARGED
360 minute summer	SW-R-MH02	176	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.3	0.294	0.073	0.3271	
360 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	3.9	0.697	0.221	0.0440	
360 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.7	0.278	0.017	0.0297	
360 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.7	0.545	0.039	0.0684	
360 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.9	0.425	0.034	0.1451	
360 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	4.0	0.503	0.099	0.8476	
360 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	7.6	0.389	0.191	1.3846	
360 minute summer	SW-TH-IC08	1.005	TANK	11.2	0.875	0.174	0.0517	
360 minute summer	TANK	1.006	SW-TH-MH01	7.3	0.414	0.070	0.0398	
360 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	27.4

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Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute winter	SW-TH-IC06	352	15.589	0.124	1.0	0.0414	0.0000	OK
360 minute winter	SW-TH-IC07	344	15.589	0.429	3.2	0.3108	0.0000	SURCHARGED
360 minute winter	SW-TH-RE01	168	15.705	0.018	0.5	0.0099	0.0000	OK
360 minute winter	SW-TH-IC01	176	15.641	0.026	1.2	0.0147	0.0000	OK
360 minute winter	SW-TH-IC02	344	15.591	0.126	1.4	0.0419	0.0000	OK
360 minute winter	SW-TH-IC03	344	15.590	0.230	3.0	0.1551	0.0000	SURCHARGED
360 minute winter	SW-TH-IC04	344	15.589	0.379	5.7	0.3801	0.0000	SURCHARGED
360 minute winter	SW-TH-IC08	360	15.590	0.585	8.1	0.1655	0.0000	SURCHARGED
360 minute winter	TANK	352	15.588	0.603	13.0	53.2377	0.0000	SURCHARGED
360 minute winter	SW-TH-MH01	360	15.587	0.642	4.3	0.7264	0.0000	SURCHARGED
360 minute winter	SW-R-MH02	160	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.284	0.056	0.5075	
360 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	3.0	0.659	0.169	0.0440	
360 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.5	0.262	0.012	0.0234	
360 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.2	0.486	0.028	0.2595	
360 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.4	0.397	0.026	0.2947	
360 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	3.0	0.459	0.075	1.0158	
360 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	5.2	0.397	0.132	1.3846	
360 minute winter	SW-TH-IC08	1.005	TANK	8.2	0.916	0.128	0.0517	
360 minute winter	TANK	1.006	SW-TH-MH01	-7.4	0.263	-0.071	0.0398	
360 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	28.8

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Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SW-TH-IC06	480	15.499	0.034	1.0	0.0112	0.0000	OK
480 minute summer	SW-TH-IC07	456	15.501	0.341	3.3	0.2467	0.0000	SURCHARGED
480 minute summer	SW-TH-RE01	248	15.706	0.019	0.6	0.0107	0.0000	OK
480 minute summer	SW-TH-IC01	248	15.643	0.028	1.4	0.0158	0.0000	OK
480 minute summer	SW-TH-IC02	472	15.500	0.035	1.6	0.0118	0.0000	OK
480 minute summer	SW-TH-IC03	472	15.500	0.140	3.2	0.0944	0.0000	OK
480 minute summer	SW-TH-IC04	456	15.501	0.291	6.1	0.2914	0.0000	SURCHARGED
480 minute summer	SW-TH-IC08	472	15.499	0.494	9.0	0.1397	0.0000	SURCHARGED
480 minute summer	TANK	472	15.498	0.513	10.8	45.2781	0.0000	SURCHARGED
480 minute summer	SW-TH-MH01	456	15.497	0.552	8.7	0.6248	0.0000	SURCHARGED
480 minute summer	SW-R-MH02	232	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
480 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.293	0.056	0.3140	
480 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	3.1	0.664	0.172	0.0440	
480 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.6	0.271	0.015	0.0262	
480 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.4	0.512	0.033	0.0605	
480 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.6	0.415	0.029	0.1411	
480 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	3.2	0.473	0.081	0.8395	
480 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	6.0	0.378	0.151	1.3846	
480 minute summer	SW-TH-IC08	1.005	TANK	8.8	0.855	0.136	0.0517	
480 minute summer	TANK	1.006	SW-TH-MH01	5.2	0.371	0.050	0.0398	
480 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	32.8

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Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
480 minute winter	SW-TH-IC06	464	15.572	0.107	0.8	0.0355	0.0000	OK
480 minute winter	SW-TH-IC07	464	15.571	0.411	2.5	0.2979	0.0000	SURCHARGED
480 minute winter	SW-TH-RE01	224	15.703	0.016	0.4	0.0089	0.0000	OK
480 minute winter	SW-TH-IC01	240	15.639	0.024	1.0	0.0135	0.0000	OK
480 minute winter	SW-TH-IC02	472	15.572	0.107	1.1	0.0358	0.0000	OK
480 minute winter	SW-TH-IC03	472	15.573	0.213	2.3	0.1433	0.0000	OK
480 minute winter	SW-TH-IC04	472	15.572	0.362	4.4	0.3628	0.0000	SURCHARGED
480 minute winter	SW-TH-IC08	472	15.571	0.566	6.6	0.1601	0.0000	SURCHARGED
480 minute winter	TANK	464	15.571	0.586	10.1	51.7037	0.0000	SURCHARGED
480 minute winter	SW-TH-MH01	464	15.570	0.625	11.6	0.7064	0.0000	SURCHARGED
480 minute winter	SW-R-MH02	216	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
480 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.8	0.271	0.045	0.4732	
480 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	2.5	0.618	0.142	0.0440	
480 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.4	0.243	0.010	0.0205	
480 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.0	0.468	0.023	0.2118	
480 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.1	0.364	0.020	0.2711	
480 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	2.3	0.429	0.058	1.0046	
480 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	4.4	0.383	0.109	1.3846	
480 minute winter	SW-TH-IC08	1.005	TANK	6.4	0.875	0.099	0.0517	
480 minute winter	TANK	1.006	SW-TH-MH01	10.7	0.397	0.102	0.0398	
480 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	34.0

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Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SW-TH-IC06	315	15.487	0.022	0.8	0.0072	0.0000	OK
600 minute summer	SW-TH-IC07	525	15.476	0.316	2.6	0.2291	0.0000	SURCHARGED
600 minute summer	SW-TH-RE01	315	15.705	0.018	0.5	0.0099	0.0000	OK
600 minute summer	SW-TH-IC01	315	15.640	0.025	1.1	0.0141	0.0000	OK
600 minute summer	SW-TH-IC02	315	15.489	0.024	1.3	0.0080	0.0000	OK
600 minute summer	SW-TH-IC03	525	15.477	0.116	2.6	0.0785	0.0000	OK
600 minute summer	SW-TH-IC04	525	15.476	0.266	4.9	0.2673	0.0000	SURCHARGED
600 minute summer	SW-TH-IC08	525	15.477	0.472	7.2	0.1337	0.0000	SURCHARGED
600 minute summer	TANK	525	15.476	0.491	7.8	43.3470	0.0000	SURCHARGED
600 minute summer	SW-TH-MH01	525	15.475	0.530	9.3	0.5995	0.0000	SURCHARGED
600 minute summer	SW-R-MH02	285	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
600 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.8	0.283	0.045	0.2908	
600 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	2.4	0.643	0.136	0.0440	
600 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.5	0.263	0.012	0.0225	
600 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.1	0.472	0.026	0.0515	
600 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.3	0.389	0.024	0.1013	
600 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	2.6	0.448	0.065	0.7727	
600 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	4.8	0.377	0.121	1.3846	
600 minute summer	SW-TH-IC08	1.005	TANK	7.0	0.801	0.108	0.0517	
600 minute summer	TANK	1.006	SW-TH-MH01	9.3	0.410	0.089	0.0398	
600 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	37.2

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Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
600 minute winter	SW-TH-IC06	570	15.557	0.092	0.6	0.0305	0.0000	OK
600 minute winter	SW-TH-IC07	555	15.559	0.399	2.0	0.2888	0.0000	SURCHARGED
600 minute winter	SW-TH-RE01	270	15.701	0.014	0.3	0.0078	0.0000	OK
600 minute winter	SW-TH-IC01	315	15.637	0.022	0.8	0.0121	0.0000	OK
600 minute winter	SW-TH-IC02	570	15.556	0.091	0.9	0.0304	0.0000	OK
600 minute winter	SW-TH-IC03	570	15.557	0.197	1.9	0.1325	0.0000	OK
600 minute winter	SW-TH-IC04	570	15.556	0.346	3.6	0.3467	0.0000	SURCHARGED
600 minute winter	SW-TH-IC08	585	15.559	0.554	5.2	0.1568	0.0000	SURCHARGED
600 minute winter	TANK	585	15.555	0.570	18.5	50.2810	0.0000	SURCHARGED
600 minute winter	SW-TH-MH01	585	15.555	0.610	4.6	0.6902	0.0000	SURCHARGED
600 minute winter	SW-R-MH02	270	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
600 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.6	0.257	0.034	0.4410	
600 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.9	0.591	0.105	0.0440	
600 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.219	0.007	0.0172	
600 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.8	0.435	0.019	0.1738	
600 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.0	0.341	0.017	0.2442	
600 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.9	0.398	0.048	0.9780	
600 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	3.5	0.376	0.088	1.3846	
600 minute winter	SW-TH-IC08	1.005	TANK	7.2	0.798	0.112	0.0517	
600 minute winter	TANK	1.006	SW-TH-MH01	-11.1	0.421	-0.106	0.0398	
600 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	39.0

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Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SW-TH-IC06	375	15.485	0.020	0.7	0.0068	0.0000	OK
720 minute summer	SW-TH-IC07	570	15.455	0.295	2.3	0.2139	0.0000	SURCHARGED
720 minute summer	SW-TH-RE01	375	15.703	0.016	0.4	0.0089	0.0000	OK
720 minute summer	SW-TH-IC01	375	15.638	0.023	0.9	0.0128	0.0000	OK
720 minute summer	SW-TH-IC02	375	15.486	0.021	1.0	0.0070	0.0000	OK
720 minute summer	SW-TH-IC03	555	15.454	0.094	2.2	0.0632	0.0000	OK
720 minute summer	SW-TH-IC04	555	15.455	0.245	4.2	0.2453	0.0000	SURCHARGED
720 minute summer	SW-TH-IC08	555	15.458	0.453	6.3	0.1283	0.0000	SURCHARGED
720 minute summer	TANK	585	15.454	0.469	10.8	41.3395	0.0000	SURCHARGED
720 minute summer	SW-TH-MH01	585	15.453	0.508	10.7	0.5750	0.0000	SURCHARGED
720 minute summer	SW-R-MH02	345	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
720 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.7	0.272	0.039	0.2884	
720 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	2.1	0.619	0.120	0.0440	
720 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.4	0.243	0.010	0.0195	
720 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.9	0.452	0.021	0.0440	
720 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.0	0.346	0.018	0.0766	
720 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	2.2	0.424	0.055	0.7077	
720 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	4.1	0.376	0.104	1.3846	
720 minute summer	SW-TH-IC08	1.005	TANK	6.1	0.741	0.094	0.0517	
720 minute summer	TANK	1.006	SW-TH-MH01	10.7	0.421	0.102	0.0398	
720 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	42.1

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Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
720 minute winter	SW-TH-IC06	660	15.539	0.074	0.5	0.0245	0.0000	OK
720 minute winter	SW-TH-IC07	645	15.538	0.378	1.7	0.2736	0.0000	SURCHARGED
720 minute winter	SW-TH-RE01	330	15.701	0.014	0.3	0.0078	0.0000	OK
720 minute winter	SW-TH-IC01	345	15.635	0.020	0.7	0.0114	0.0000	OK
720 minute winter	SW-TH-IC02	660	15.538	0.073	0.8	0.0243	0.0000	OK
720 minute winter	SW-TH-IC03	660	15.538	0.178	1.7	0.1199	0.0000	OK
720 minute winter	SW-TH-IC04	660	15.538	0.328	3.2	0.3289	0.0000	SURCHARGED
720 minute winter	SW-TH-IC08	675	15.539	0.534	4.6	0.1511	0.0000	SURCHARGED
720 minute winter	TANK	675	15.538	0.553	8.7	48.7545	0.0000	SURCHARGED
720 minute winter	SW-TH-MH01	675	15.538	0.593	6.9	0.6703	0.0000	SURCHARGED
720 minute winter	SW-R-MH02	330	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
720 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.5	0.250	0.028	0.4001	
720 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.6	0.571	0.090	0.0440	
720 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.234	0.007	0.0162	
720 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.1308	
720 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.338	0.015	0.2111	
720 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.7	0.390	0.043	0.9379	
720 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	3.0	0.380	0.075	1.3846	
720 minute winter	SW-TH-IC08	1.005	TANK	4.5	0.761	0.069	0.0517	
720 minute winter	TANK	1.006	SW-TH-MH01	6.8	0.403	0.065	0.0398	
720 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	43.9

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Results for 100 year +40% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 76.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute summer	SW-TH-IC06	144	15.807	0.342	3.3	0.1139	0.0000	SURCHARGED
240 minute summer	SW-TH-IC07	152	15.803	0.643	10.1	0.4653	0.0000	SURCHARGED
240 minute summer	SW-TH-RE01	148	15.815	0.128	1.9	0.0719	0.0000	OK
240 minute summer	SW-TH-IC01	144	15.809	0.194	4.4	0.1080	0.0000	OK
240 minute summer	SW-TH-IC02	144	15.808	0.343	5.0	0.1146	0.0000	SURCHARGED
240 minute summer	SW-TH-IC03	152	15.809	0.449	9.7	0.3025	0.0000	SURCHARGED
240 minute summer	SW-TH-IC04	152	15.811	0.601	17.8	0.6030	0.0000	SURCHARGED
240 minute summer	SW-TH-IC08	212	15.796	0.791	26.9	0.2238	0.0000	SURCHARGED
240 minute summer	TANK	212	15.786	0.801	29.4	70.6321	0.0000	SURCHARGED
240 minute summer	SW-TH-MH01	144	15.807	0.862	19.4	0.9754	0.0000	SURCHARGED
240 minute summer	SW-R-MH02	152	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	3.1	0.307	0.173	0.5379	
240 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	10.6	0.706	0.598	0.0440	
240 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	1.9	0.390	0.047	0.3446	
240 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	4.4	0.697	0.102	0.8418	
240 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	4.6	0.520	0.083	0.3749	
240 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	8.8	0.549	0.221	1.0158	
240 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	17.3	0.484	0.436	1.3846	
240 minute summer	SW-TH-IC08	1.005	TANK	26.7	1.106	0.413	0.0517	
240 minute summer	TANK	1.006	SW-TH-MH01	12.5	0.530	0.120	0.0398	
240 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0141	26.3

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Results for 100 year +40% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 69.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	SW-TH-IC10	4	16.474	0.000	0.0	0.0000	0.0000	OK
240 minute winter	SW-TH-IC06	140	15.808	0.343	2.5	0.1141	0.0000	SURCHARGED
240 minute winter	SW-TH-IC07	140	15.828	0.668	7.9	0.4840	0.0000	SURCHARGED
240 minute winter	SW-TH-RE01	140	15.817	0.130	1.4	0.0733	0.0000	OK
240 minute winter	SW-TH-IC01	140	15.817	0.202	4.1	0.1126	0.0000	OK
240 minute winter	SW-TH-IC02	140	15.817	0.352	6.7	0.1175	0.0000	SURCHARGED
240 minute winter	SW-TH-IC03	140	15.817	0.457	9.5	0.3083	0.0000	SURCHARGED
240 minute winter	SW-TH-IC04	140	15.821	0.611	14.8	0.6130	0.0000	SURCHARGED
240 minute winter	SW-TH-IC08	244	15.795	0.790	21.7	0.2237	0.0000	SURCHARGED
240 minute winter	TANK	140	15.875	0.890	25.9	70.7348	0.0000	SURCHARGED
240 minute winter	SW-TH-MH01	140	15.827	0.882	9.1	0.9971	0.0000	SURCHARGED
240 minute winter	SW-R-MH02	140	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
240 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	3.0	0.317	0.168	0.5379	
240 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	7.7	0.714	0.432	0.0440	
240 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	2.7	0.358	0.066	0.3593	
240 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	6.4	0.641	0.151	0.8552	
240 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	6.6	0.498	0.121	0.3749	
240 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	9.3	0.535	0.233	1.0158	
240 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	15.1	0.517	0.380	1.3846	
240 minute winter	SW-TH-IC08	1.005	TANK	24.5	1.155	0.379	0.0517	
240 minute winter	TANK	1.006	SW-TH-MH01	-9.2	0.301	-0.088	0.0398	
240 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.587	0.016	0.0141	26.3

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Results for 100 year +40% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 75.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute summer	SW-TH-IC06	216	15.808	0.343	2.5	0.1143	0.0000	SURCHARGED
360 minute summer	SW-TH-IC07	256	15.795	0.635	7.7	0.4601	0.0000	SURCHARGED
360 minute summer	SW-TH-RE01	216	15.798	0.111	1.4	0.0623	0.0000	OK
360 minute summer	SW-TH-IC01	216	15.797	0.182	3.5	0.1013	0.0000	OK
360 minute summer	SW-TH-IC02	208	15.795	0.330	4.3	0.1102	0.0000	SURCHARGED
360 minute summer	SW-TH-IC03	208	15.796	0.436	6.8	0.2937	0.0000	SURCHARGED
360 minute summer	SW-TH-IC04	264	15.788	0.578	13.6	0.5799	0.0000	SURCHARGED
360 minute summer	SW-TH-IC08	256	15.792	0.787	23.9	0.2228	0.0000	SURCHARGED
360 minute summer	TANK	360	15.787	0.802	37.9	70.6352	0.0000	SURCHARGED
360 minute summer	SW-TH-MH01	232	15.800	0.855	31.1	0.9675	0.0000	SURCHARGED
360 minute summer	SW-R-MH02	232	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	2.7	0.277	0.153	0.5379	
360 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	11.4	0.648	0.643	0.0440	
360 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	2.4	0.354	0.060	0.3147	
360 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	4.0	0.626	0.092	0.8198	
360 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	4.4	0.463	0.080	0.3749	
360 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	6.9	0.494	0.174	1.0158	
360 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	13.4	0.447	0.336	1.3846	
360 minute summer	SW-TH-IC08	1.005	TANK	21.3	0.977	0.331	0.0517	
360 minute summer	TANK	1.006	SW-TH-MH01	29.1	0.732	0.279	0.0398	
360 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.587	0.016	0.0140	32.6

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Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 66.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
360 minute winter	SW-TH-IC06	216	15.810	0.345	1.8	0.1148	0.0000	SURCHARGED
360 minute winter	SW-TH-IC07	216	15.799	0.639	5.7	0.4627	0.0000	SURCHARGED
360 minute winter	SW-TH-RE01	216	15.805	0.118	1.9	0.0663	0.0000	OK
360 minute winter	SW-TH-IC01	224	15.798	0.183	2.4	0.1017	0.0000	OK
360 minute winter	SW-TH-IC02	224	15.796	0.331	2.6	0.1107	0.0000	SURCHARGED
360 minute winter	SW-TH-IC03	224	15.796	0.436	5.1	0.2938	0.0000	SURCHARGED
360 minute winter	SW-TH-IC04	216	15.799	0.589	10.2	0.5909	0.0000	SURCHARGED
360 minute winter	SW-TH-IC08	240	15.795	0.790	23.9	0.2235	0.0000	SURCHARGED
360 minute winter	TANK	248	15.786	0.801	54.8	70.6335	0.0000	SURCHARGED
360 minute winter	SW-TH-MH01	240	15.802	0.857	51.8	0.9698	0.0000	SURCHARGED
360 minute winter	SW-R-MH02	272	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
360 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.9	0.284	0.104	0.5379	
360 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	7.0	0.643	0.393	0.0440	
360 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	-1.1	0.323	-0.028	0.3230	
360 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	2.3	0.576	0.054	0.8210	
360 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	2.4	0.448	0.043	0.3749	
360 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	5.0	0.481	0.125	1.0158	
360 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	10.0	0.476	0.252	1.3846	
360 minute winter	SW-TH-IC08	1.005	TANK	30.0	1.043	0.465	0.0517	
360 minute winter	TANK	1.006	SW-TH-MH01	39.2	0.986	0.375	0.0398	
360 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	32.6

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Results for 100 year +40% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 76.33%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
480 minute summer	SW-TH-IC06	408	15.792	0.327	2.0	0.1089	0.0000	SURCHARGED
480 minute summer	SW-TH-IC07	312	15.792	0.632	6.4	0.4575	0.0000	SURCHARGED
480 minute summer	SW-TH-RE01	272	15.800	0.113	1.1	0.0634	0.0000	OK
480 minute summer	SW-TH-IC01	272	15.798	0.183	3.2	0.1017	0.0000	OK
480 minute summer	SW-TH-IC02	280	15.795	0.330	4.1	0.1103	0.0000	SURCHARGED
480 minute summer	SW-TH-IC03	280	15.797	0.437	6.3	0.2942	0.0000	SURCHARGED
480 minute summer	SW-TH-IC04	280	15.789	0.579	10.9	0.5808	0.0000	SURCHARGED
480 minute summer	SW-TH-IC08	272	15.792	0.787	16.8	0.2226	0.0000	SURCHARGED
480 minute summer	TANK	352	15.786	0.801	29.3	70.6347	0.0000	SURCHARGED
480 minute summer	SW-TH-MH01	320	15.788	0.843	6.0	0.9532	0.0000	SURCHARGED
480 minute summer	SW-R-MH02	432	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
480 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	3.6	0.265	0.201	0.5379	
480 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	6.0	0.601	0.340	0.0440	
480 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	2.4	0.328	0.058	0.3186	
480 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	3.9	0.593	0.091	0.8216	
480 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	4.3	0.444	0.078	0.3749	
480 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	7.2	0.460	0.182	1.0158	
480 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	10.7	0.397	0.270	1.3846	
480 minute summer	SW-TH-IC08	1.005	TANK	16.6	0.918	0.257	0.0517	
480 minute summer	TANK	1.006	SW-TH-MH01	-20.5	-0.516	-0.197	0.0398	
480 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	39.1

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Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 67.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	SW-TH-IC10	8	16.474	0.000	0.0	0.0000	0.0000	OK
480 minute winter	SW-TH-IC06	280	15.804	0.339	1.5	0.1127	0.0000	SURCHARGED
480 minute winter	SW-TH-IC07	280	15.817	0.657	4.9	0.4758	0.0000	SURCHARGED
480 minute winter	SW-TH-RE01	272	15.798	0.111	1.3	0.0627	0.0000	OK
480 minute winter	SW-TH-IC01	272	15.797	0.182	4.0	0.1016	0.0000	OK
480 minute winter	SW-TH-IC02	272	15.797	0.332	5.7	0.1108	0.0000	SURCHARGED
480 minute winter	SW-TH-IC03	272	15.797	0.437	8.6	0.2943	0.0000	SURCHARGED
480 minute winter	SW-TH-IC04	280	15.800	0.590	12.8	0.5913	0.0000	SURCHARGED
480 minute winter	SW-TH-IC08	432	15.804	0.799	19.4	0.2260	0.0000	SURCHARGED
480 minute winter	TANK	368	15.798	0.813	32.5	70.6473	0.0000	SURCHARGED
480 minute winter	SW-TH-MH01	280	15.797	0.852	5.7	0.9633	0.0000	SURCHARGED
480 minute winter	SW-R-MH02	280	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
480 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.5	0.271	0.086	0.5379	
480 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.5	0.618	0.253	0.0440	
480 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	3.0	0.304	0.073	0.3163	
480 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	5.4	0.546	0.127	0.8202	
480 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	6.4	0.420	0.116	0.3749	
480 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	9.0	0.446	0.227	1.0158	
480 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	12.2	0.447	0.307	1.3846	
480 minute winter	SW-TH-IC08	1.005	TANK	21.0	0.975	0.325	0.0517	
480 minute winter	TANK	1.006	SW-TH-MH01	5.7	0.414	0.054	0.0398	
480 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.587	0.016	0.0141	39.0

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Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 77.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
600 minute summer	SW-TH-IC06	450	15.795	0.330	1.6	0.1098	0.0000	SURCHARGED
600 minute summer	SW-TH-IC07	480	15.790	0.630	5.0	0.4562	0.0000	SURCHARGED
600 minute summer	SW-TH-RE01	510	15.788	0.101	0.9	0.0570	0.0000	OK
600 minute summer	SW-TH-IC01	600	15.789	0.174	2.1	0.0970	0.0000	OK
600 minute summer	SW-TH-IC02	345	15.792	0.327	2.4	0.1091	0.0000	SURCHARGED
600 minute summer	SW-TH-IC03	345	15.793	0.433	4.5	0.2920	0.0000	SURCHARGED
600 minute summer	SW-TH-IC04	345	15.792	0.582	8.8	0.5842	0.0000	SURCHARGED
600 minute summer	SW-TH-IC08	345	15.816	0.811	13.5	0.2296	0.0000	SURCHARGED
600 minute summer	TANK	450	15.786	0.801	13.4	70.6275	0.0000	SURCHARGED
600 minute summer	SW-TH-MH01	450	15.789	0.844	6.6	0.9544	0.0000	SURCHARGED
600 minute summer	SW-R-MH02	345	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
600 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.5	0.266	0.082	0.5379	
600 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	7.9	0.580	0.443	0.0440	
600 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.9	0.311	0.022	0.2936	
600 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	2.1	0.546	0.049	0.8038	
600 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.9	0.425	0.035	0.3749	
600 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	4.4	0.435	0.111	1.0158	
600 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	8.7	0.377	0.218	1.3846	
600 minute summer	SW-TH-IC08	1.005	TANK	13.4	0.894	0.207	0.0517	
600 minute summer	TANK	1.006	SW-TH-MH01	3.4	0.329	0.033	0.0398	
600 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0141	45.0

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Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 69.41%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
600 minute winter	SW-TH-IC06	345	15.792	0.327	1.2	0.1089	0.0000	SURCHARGED
600 minute winter	SW-TH-IC07	450	15.792	0.632	4.3	0.4573	0.0000	SURCHARGED
600 minute winter	SW-TH-RE01	345	15.793	0.106	0.7	0.0596	0.0000	OK
600 minute winter	SW-TH-IC01	405	15.791	0.176	1.6	0.0982	0.0000	OK
600 minute winter	SW-TH-IC02	345	15.794	0.329	1.8	0.1100	0.0000	SURCHARGED
600 minute winter	SW-TH-IC03	345	15.795	0.435	3.4	0.2934	0.0000	SURCHARGED
600 minute winter	SW-TH-IC04	345	15.795	0.585	6.7	0.5868	0.0000	SURCHARGED
600 minute winter	SW-TH-IC08	525	15.788	0.783	48.4	0.2215	0.0000	SURCHARGED
600 minute winter	TANK	450	15.789	0.804	10.5	70.6373	0.0000	SURCHARGED
600 minute winter	SW-TH-MH01	495	15.786	0.841	4.0	0.9517	0.0000	SURCHARGED
600 minute winter	SW-R-MH02	405	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
600 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.4	0.261	0.077	0.5379	
600 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	11.5	0.653	0.647	0.0440	
600 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.8	0.291	0.019	0.3023	
600 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.7	0.511	0.039	0.8083	
600 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	2.0	0.391	0.037	0.3749	
600 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	3.3	0.415	0.083	1.0158	
600 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	7.2	0.413	0.182	1.3846	
600 minute winter	SW-TH-IC08	1.005	TANK	-21.8	0.885	-0.338	0.0517	
600 minute winter	TANK	1.006	SW-TH-MH01	4.0	0.254	0.038	0.0398	
600 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0141	45.1

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Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 80.30%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
720 minute summer	SW-TH-IC06	465	15.792	0.327	1.4	0.1088	0.0000	SURCHARGED
720 minute summer	SW-TH-IC07	420	15.790	0.630	4.4	0.4563	0.0000	SURCHARGED
720 minute summer	SW-TH-RE01	420	15.793	0.106	0.8	0.0597	0.0000	OK
720 minute summer	SW-TH-IC01	420	15.795	0.180	1.8	0.1001	0.0000	OK
720 minute summer	SW-TH-IC02	420	15.793	0.328	2.1	0.1096	0.0000	SURCHARGED
720 minute summer	SW-TH-IC03	420	15.793	0.433	4.0	0.2917	0.0000	SURCHARGED
720 minute summer	SW-TH-IC04	420	15.791	0.581	7.7	0.5829	0.0000	SURCHARGED
720 minute summer	SW-TH-IC08	420	15.798	0.793	11.8	0.2243	0.0000	SURCHARGED
720 minute summer	TANK	420	15.791	0.806	89.6	70.6401	0.0000	SURCHARGED
720 minute summer	SW-TH-MH01	420	15.807	0.862	13.1	0.9746	0.0000	SURCHARGED
720 minute summer	SW-R-MH02	420	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
720 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.3	0.250	0.072	0.5379	
720 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	4.3	0.558	0.240	0.0440	
720 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.9	0.305	0.022	0.3062	
720 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.8	0.523	0.042	0.8153	
720 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.8	0.390	0.033	0.3749	
720 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	3.8	0.414	0.094	1.0158	
720 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	7.5	0.381	0.189	1.3846	
720 minute summer	SW-TH-IC08	1.005	TANK	40.2	1.010	0.622	0.0517	
720 minute summer	TANK	1.006	SW-TH-MH01	-43.9	-1.103	-0.420	0.0398	
720 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	51.3

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Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 71.18%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
720 minute winter	SW-TH-IC06	660	15.793	0.328	1.0	0.1093	0.0000	SURCHARGED
720 minute winter	SW-TH-IC07	405	15.792	0.632	3.2	0.4573	0.0000	SURCHARGED
720 minute winter	SW-TH-RE01	405	15.792	0.105	0.6	0.0593	0.0000	OK
720 minute winter	SW-TH-IC01	405	15.792	0.177	1.9	0.0987	0.0000	OK
720 minute winter	SW-TH-IC02	465	15.792	0.327	2.1	0.1094	0.0000	SURCHARGED
720 minute winter	SW-TH-IC03	465	15.793	0.433	3.3	0.2916	0.0000	SURCHARGED
720 minute winter	SW-TH-IC04	465	15.790	0.580	5.8	0.5815	0.0000	SURCHARGED
720 minute winter	SW-TH-IC08	465	15.794	0.789	8.8	0.2233	0.0000	SURCHARGED
720 minute winter	TANK	465	15.793	0.808	8.8	70.6418	0.0000	SURCHARGED
720 minute winter	SW-TH-MH01	435	15.791	0.846	4.0	0.9565	0.0000	SURCHARGED
720 minute winter	SW-R-MH02	405	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
720 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.9	0.266	0.052	0.5379	
720 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	4.3	0.581	0.242	0.0440	
720 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	1.4	0.283	0.035	0.3028	
720 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.9	0.486	0.045	0.8102	
720 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.9	0.382	0.035	0.3749	
720 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	3.1	0.409	0.078	1.0158	
720 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	5.7	0.397	0.143	1.3846	
720 minute winter	SW-TH-IC08	1.005	TANK	8.8	0.824	0.136	0.0517	
720 minute winter	TANK	1.006	SW-TH-MH01	4.0	0.308	0.038	0.0398	
720 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	51.4

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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
960 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SW-TH-IC06	480	15.476	0.011	0.2	0.0038	0.0000	OK
960 minute summer	SW-TH-IC07	480	15.180	0.020	0.6	0.0144	0.0000	OK
960 minute summer	SW-TH-RE01	420	15.695	0.008	0.1	0.0047	0.0000	OK
960 minute summer	SW-TH-IC01	420	15.626	0.011	0.2	0.0064	0.0000	OK
960 minute summer	SW-TH-IC02	420	15.475	0.010	0.2	0.0034	0.0000	OK
960 minute summer	SW-TH-IC03	480	15.378	0.018	0.5	0.0119	0.0000	OK
960 minute summer	SW-TH-IC04	480	15.235	0.025	1.0	0.0246	0.0000	OK
960 minute summer	SW-TH-IC08	585	15.065	0.060	1.6	0.0169	0.0000	OK
960 minute summer	TANK	585	15.064	0.079	4.1	6.9740	0.0000	OK
960 minute summer	SW-TH-MH01	570	15.071	0.126	4.4	0.1425	0.0000	OK
960 minute summer	SW-R-MH02	585	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.208	0.011	0.0302	
960 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.6	0.452	0.034	0.0033	
960 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
960 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
960 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0096	
960 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.268	0.013	0.0481	
960 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.0	0.376	0.025	0.1761	
960 minute summer	SW-TH-IC08	1.005	TANK	2.7	0.622	0.042	0.0135	
960 minute summer	TANK	1.006	SW-TH-MH01	4.4	0.417	0.042	0.0176	
960 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.556	0.013	0.0124	23.6

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute winter	SW-TH-IC06	750	15.492	0.027	0.4	0.0090	0.0000	OK
960 minute winter	SW-TH-IC07	750	15.491	0.331	1.3	0.2396	0.0000	SURCHARGED
960 minute summer	SW-TH-RE01	480	15.701	0.014	0.3	0.0078	0.0000	OK
960 minute summer	SW-TH-IC01	480	15.635	0.020	0.7	0.0114	0.0000	OK
960 minute winter	SW-TH-IC02	765	15.491	0.026	0.6	0.0086	0.0000	OK
960 minute winter	SW-TH-IC03	765	15.490	0.130	1.3	0.0879	0.0000	OK
960 minute winter	SW-TH-IC04	750	15.491	0.281	2.5	0.2815	0.0000	SURCHARGED
960 minute winter	SW-TH-IC08	765	15.489	0.484	3.7	0.1370	0.0000	SURCHARGED
960 minute winter	TANK	750	15.488	0.503	10.8	44.4242	0.0000	SURCHARGED
960 minute winter	SW-TH-MH01	750	15.491	0.546	12.4	0.6175	0.0000	SURCHARGED
960 minute winter	SW-R-MH02	450	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.250	0.023	0.3020	
960 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.4	0.546	0.077	0.0440	
960 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.219	0.007	0.0162	
960 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.0372	
960 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.309	0.011	0.1242	
960 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.3	0.369	0.033	0.8123	
960 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	2.5	0.377	0.063	1.3846	
960 minute winter	SW-TH-IC08	1.005	TANK	4.5	0.661	0.069	0.0517	
960 minute winter	TANK	1.006	SW-TH-MH01	10.6	0.409	0.102	0.0398	
960 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	53.0

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 75.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SW-TH-IC06	570	15.798	0.333	1.1	0.1108	0.0000	SURCHARGED
960 minute summer	SW-TH-IC07	660	15.791	0.631	3.4	0.4569	0.0000	SURCHARGED
960 minute winter	SW-TH-RE01	555	15.792	0.105	1.3	0.0590	0.0000	OK
960 minute winter	SW-TH-IC01	570	15.795	0.180	2.6	0.1001	0.0000	OK
960 minute winter	SW-TH-IC02	570	15.799	0.334	2.4	0.1114	0.0000	SURCHARGED
960 minute winter	SW-TH-IC03	570	15.799	0.439	2.5	0.2956	0.0000	SURCHARGED
960 minute winter	SW-TH-IC04	570	15.790	0.580	4.6	0.5818	0.0000	SURCHARGED
960 minute winter	SW-TH-IC08	930	15.797	0.792	19.6	0.2242	0.0000	SURCHARGED
1440 minute winter	TANK	960	15.788	0.803	11.4	70.6279	0.0000	SURCHARGED
1440 minute winter	SW-TH-MH01	900	15.793	0.848	12.8	0.9595	0.0000	SURCHARGED
1440 minute winter	SW-R-MH02	960	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.258	0.056	0.5379	
960 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	3.2	0.558	0.183	0.0440	
960 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	-1.1	0.266	-0.027	0.3045	
960 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	-2.3	0.467	-0.053	0.8153	
960 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	-2.3	0.358	-0.042	0.3749	
960 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	2.8	0.389	0.071	1.0158	
960 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	6.2	0.382	0.155	1.3846	
960 minute winter	SW-TH-IC08	1.005	TANK	7.1	0.829	0.110	0.0517	
1440 minute winter	TANK	1.006	SW-TH-MH01	12.8	0.412	0.122	0.0398	
1440 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	87.4

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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	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SW-TH-IC06	480	15.476	0.011	0.2	0.0038	0.0000	OK
960 minute summer	SW-TH-IC07	480	15.180	0.020	0.6	0.0144	0.0000	OK
960 minute summer	SW-TH-RE01	420	15.695	0.008	0.1	0.0047	0.0000	OK
960 minute summer	SW-TH-IC01	420	15.626	0.011	0.2	0.0064	0.0000	OK
960 minute summer	SW-TH-IC02	420	15.475	0.010	0.2	0.0034	0.0000	OK
960 minute summer	SW-TH-IC03	480	15.378	0.018	0.5	0.0119	0.0000	OK
960 minute summer	SW-TH-IC04	480	15.235	0.025	1.0	0.0246	0.0000	OK
960 minute summer	SW-TH-IC08	585	15.065	0.060	1.6	0.0169	0.0000	OK
960 minute summer	TANK	585	15.064	0.079	4.1	6.9740	0.0000	OK
960 minute summer	SW-TH-MH01	570	15.071	0.126	4.4	0.1425	0.0000	OK
960 minute summer	SW-R-MH02	585	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.208	0.011	0.0302	
960 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.6	0.452	0.034	0.0033	
960 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
960 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
960 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0096	
960 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.268	0.013	0.0481	
960 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.0	0.376	0.025	0.1761	
960 minute summer	SW-TH-IC08	1.005	TANK	2.7	0.622	0.042	0.0135	
960 minute summer	TANK	1.006	SW-TH-MH01	4.4	0.417	0.042	0.0176	
960 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.556	0.013	0.0124	23.6

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute winter	SW-TH-IC06	315	15.473	0.008	0.1	0.0027	0.0000	OK
960 minute winter	SW-TH-IC07	420	15.176	0.016	0.4	0.0118	0.0000	OK
960 minute winter	SW-TH-RE01	390	15.695	0.008	0.1	0.0047	0.0000	OK
960 minute winter	SW-TH-IC01	390	15.626	0.011	0.2	0.0064	0.0000	OK
960 minute winter	SW-TH-IC02	390	15.475	0.010	0.2	0.0034	0.0000	OK
960 minute winter	SW-TH-IC03	390	15.376	0.016	0.4	0.0108	0.0000	OK
960 minute winter	SW-TH-IC04	450	15.232	0.022	0.8	0.0221	0.0000	OK
960 minute winter	SW-TH-IC08	615	15.063	0.058	1.6	0.0163	0.0000	OK
960 minute winter	TANK	615	15.061	0.076	3.7	6.7230	0.0000	OK
960 minute winter	SW-TH-MH01	615	15.066	0.121	4.4	0.1364	0.0000	OK
960 minute winter	SW-R-MH02	615	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
960 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0025	
960 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
960 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
960 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
960 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0412	
960 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.8	0.377	0.020	0.1640	
960 minute winter	SW-TH-IC08	1.005	TANK	2.4	0.599	0.037	0.0129	
960 minute winter	TANK	1.006	SW-TH-MH01	4.4	0.415	0.042	0.0167	
960 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.555	0.013	0.0124	27.9

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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	SW-TH-IC10	30	16.474	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SW-TH-IC06	600	15.473	0.008	0.1	0.0027	0.0000	OK
1440 minute summer	SW-TH-IC07	720	15.176	0.016	0.4	0.0118	0.0000	OK
1440 minute summer	SW-TH-RE01	690	15.695	0.008	0.1	0.0047	0.0000	OK
1440 minute summer	SW-TH-IC01	690	15.626	0.011	0.2	0.0064	0.0000	OK
1440 minute summer	SW-TH-IC02	690	15.475	0.010	0.2	0.0034	0.0000	OK
1440 minute summer	SW-TH-IC03	690	15.376	0.016	0.4	0.0108	0.0000	OK
1440 minute summer	SW-TH-IC04	750	15.232	0.022	0.8	0.0221	0.0000	OK
1440 minute summer	SW-TH-IC08	840	15.047	0.042	1.3	0.0119	0.0000	OK
1440 minute summer	TANK	840	15.046	0.061	4.8	5.4089	0.0000	OK
1440 minute summer	SW-TH-MH01	810	15.056	0.111	4.4	0.1257	0.0000	OK
1440 minute summer	SW-R-MH02	840	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
1440 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
1440 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0025	
1440 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
1440 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
1440 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
1440 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0412	
1440 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.8	0.376	0.020	0.1113	
1440 minute summer	SW-TH-IC08	1.005	TANK	2.3	0.564	0.036	0.0090	
1440 minute summer	TANK	1.006	SW-TH-MH01	4.4	0.404	0.042	0.0140	
1440 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.547	0.013	0.0121	22.7

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW-TH-IC10	30	16.474	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	SW-TH-IC06	540	15.473	0.008	0.1	0.0027	0.0000	OK
1440 minute winter	SW-TH-IC07	600	15.174	0.014	0.3	0.0102	0.0000	OK
1440 minute winter	SW-TH-RE01	690	15.695	0.008	0.1	0.0047	0.0000	OK
1440 minute winter	SW-TH-IC01	690	15.626	0.011	0.2	0.0064	0.0000	OK
1440 minute winter	SW-TH-IC02	690	15.475	0.010	0.2	0.0034	0.0000	OK
1440 minute winter	SW-TH-IC03	690	15.376	0.016	0.4	0.0108	0.0000	OK
1440 minute winter	SW-TH-IC04	720	15.231	0.021	0.7	0.0208	0.0000	OK
1440 minute winter	SW-TH-IC08	870	15.040	0.035	1.0	0.0100	0.0000	OK
1440 minute winter	TANK	840	15.041	0.056	4.6	4.9098	0.0000	OK
1440 minute winter	SW-TH-MH01	840	15.055	0.110	3.9	0.1245	0.0000	OK
1440 minute winter	SW-R-MH02	870	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
1440 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
1440 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
1440 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
1440 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
1440 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
1440 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0390	
1440 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.380	0.018	0.0902	
1440 minute winter	SW-TH-IC08	1.005	TANK	1.6	0.555	0.024	0.0073	
1440 minute winter	TANK	1.006	SW-TH-MH01	3.9	0.396	0.037	0.0135	
1440 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.544	0.013	0.0120	29.1

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SW-TH-IC06	1020	15.473	0.008	0.1	0.0027	0.0000	OK
2160 minute summer	SW-TH-IC07	1080	15.174	0.014	0.3	0.0102	0.0000	OK
2160 minute summer	SW-TH-RE01	1140	15.695	0.008	0.1	0.0047	0.0000	OK
2160 minute summer	SW-TH-IC01	1140	15.626	0.011	0.2	0.0064	0.0000	OK
2160 minute summer	SW-TH-IC02	1140	15.475	0.010	0.2	0.0034	0.0000	OK
2160 minute summer	SW-TH-IC03	1140	15.376	0.016	0.4	0.0108	0.0000	OK
2160 minute summer	SW-TH-IC04	1140	15.231	0.021	0.7	0.0208	0.0000	OK
2160 minute summer	SW-TH-IC08	1200	15.028	0.023	1.0	0.0065	0.0000	OK
2160 minute summer	TANK	1200	15.030	0.045	3.0	4.0117	0.0000	OK
2160 minute summer	SW-TH-MH01	1200	15.046	0.101	2.9	0.1142	0.0000	OK
2160 minute summer	SW-R-MH02	1200	14.842	0.017	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2160 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.205	0.006	0.0184	
2160 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
2160 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
2160 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
2160 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
2160 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.263	0.010	0.0390	
2160 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.379	0.018	0.0665	
2160 minute summer	SW-TH-IC08	1.005	TANK	1.0	0.542	0.016	0.0051	
2160 minute summer	TANK	1.006	SW-TH-MH01	2.9	0.384	0.027	0.0115	
2160 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.7	0.534	0.012	0.0113	22.4

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Results for 1 year 2160 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	SW-TH-IC06	960	15.473	0.008	0.1	0.0027	0.0000	OK
2160 minute winter	SW-TH-IC07	1080	15.174	0.014	0.3	0.0102	0.0000	OK
2160 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	SW-TH-IC01	1080	15.623	0.008	0.1	0.0047	0.0000	OK
2160 minute winter	SW-TH-IC02	1080	15.472	0.007	0.1	0.0024	0.0000	OK
2160 minute winter	SW-TH-IC03	1080	15.372	0.012	0.2	0.0078	0.0000	OK
2160 minute winter	SW-TH-IC04	1080	15.226	0.016	0.4	0.0160	0.0000	OK
2160 minute winter	SW-TH-IC08	1080	15.023	0.018	0.7	0.0052	0.0000	OK
2160 minute winter	TANK	1200	15.016	0.031	2.0	2.7088	0.0000	OK
2160 minute winter	SW-TH-MH01	1200	15.029	0.084	2.7	0.0944	0.0000	OK
2160 minute winter	SW-R-MH02	1200	14.841	0.016	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2160 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
2160 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
2160 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0027	
2160 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.1	0.240	0.002	0.0092	
2160 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.1	0.181	0.002	0.0054	
2160 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.2	0.202	0.005	0.0255	
2160 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.4	0.311	0.010	0.0481	
2160 minute winter	SW-TH-IC08	1.005	TANK	0.7	0.542	0.011	0.0030	
2160 minute winter	TANK	1.006	SW-TH-MH01	2.7	0.399	0.026	0.0083	
2160 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.7	0.513	0.010	0.0105	26.1

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SW-TH-IC06	1380	15.473	0.008	0.1	0.0027	0.0000	OK
2880 minute summer	SW-TH-IC07	1440	15.174	0.014	0.3	0.0102	0.0000	OK
2880 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SW-TH-IC01	1440	15.623	0.008	0.1	0.0047	0.0000	OK
2880 minute summer	SW-TH-IC02	1440	15.472	0.007	0.1	0.0024	0.0000	OK
2880 minute summer	SW-TH-IC03	1440	15.372	0.012	0.2	0.0078	0.0000	OK
2880 minute summer	SW-TH-IC04	1440	15.226	0.016	0.4	0.0160	0.0000	OK
2880 minute summer	SW-TH-IC08	1440	15.023	0.018	0.7	0.0052	0.0000	OK
2880 minute summer	TANK	1560	15.015	0.030	2.0	2.6867	0.0000	OK
2880 minute summer	SW-TH-MH01	1620	15.022	0.077	1.8	0.0871	0.0000	OK
2880 minute summer	SW-R-MH02	1620	14.841	0.016	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2880 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.205	0.006	0.0184	
2880 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
2880 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0027	
2880 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.1	0.240	0.002	0.0092	
2880 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.1	0.181	0.002	0.0054	
2880 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.2	0.202	0.005	0.0255	
2880 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.4	0.309	0.010	0.0480	
2880 minute summer	SW-TH-IC08	1.005	TANK	0.7	0.542	0.011	0.0030	
2880 minute summer	TANK	1.006	SW-TH-MH01	1.8	0.340	0.017	0.0075	
2880 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.7	0.515	0.010	0.0105	21.8

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Results for 1 year 2880 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	SW-TH-IC06	1320	15.473	0.008	0.1	0.0027	0.0000	OK
2880 minute winter	SW-TH-IC07	1320	15.172	0.012	0.2	0.0084	0.0000	OK
2880 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	SW-TH-IC03	1080	15.368	0.008	0.1	0.0057	0.0000	OK
2880 minute winter	SW-TH-IC04	1380	15.224	0.014	0.3	0.0141	0.0000	OK
2880 minute winter	SW-TH-IC08	1320	15.020	0.015	0.5	0.0043	0.0000	OK
2880 minute winter	TANK	1620	15.002	0.017	0.7	1.5129	0.0000	OK
2880 minute winter	SW-TH-MH01	1500	15.009	0.064	1.2	0.0721	0.0000	OK
2880 minute winter	SW-R-MH02	1620	14.840	0.015	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2880 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0152	
2880 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.2	0.328	0.011	0.0015	
2880 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
2880 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
2880 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
2880 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0189	
2880 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.3	0.280	0.008	0.0375	
2880 minute winter	SW-TH-IC08	1.005	TANK	0.5	0.520	0.008	0.0016	
2880 minute winter	TANK	1.006	SW-TH-MH01	1.2	0.258	0.011	0.0053	
2880 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.5	0.480	0.008	0.0087	25.9

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SW-TH-IC06	2100	15.473	0.008	0.1	0.0027	0.0000	OK
4320 minute summer	SW-TH-IC07	2100	15.172	0.012	0.2	0.0084	0.0000	OK
4320 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SW-TH-IC03	1920	15.368	0.008	0.1	0.0057	0.0000	OK
4320 minute summer	SW-TH-IC04	2160	15.224	0.014	0.3	0.0141	0.0000	OK
4320 minute summer	SW-TH-IC08	2100	15.020	0.015	0.5	0.0043	0.0000	OK
4320 minute summer	TANK	2280	15.001	0.016	0.7	1.4467	0.0000	OK
4320 minute summer	SW-TH-MH01	2280	15.008	0.063	1.0	0.0713	0.0000	OK
4320 minute summer	SW-R-MH02	2340	14.839	0.014	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
4320 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0152	
4320 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.2	0.328	0.011	0.0015	
4320 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
4320 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
4320 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
4320 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0189	
4320 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.3	0.280	0.008	0.0374	
4320 minute summer	SW-TH-IC08	1.005	TANK	0.5	0.521	0.008	0.0016	
4320 minute summer	TANK	1.006	SW-TH-MH01	1.0	0.232	0.010	0.0052	
4320 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.5	0.471	0.008	0.0085	20.8

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Results for 1 year 4320 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC07	1560	15.168	0.008	0.1	0.0060	0.0000	OK
4320 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC03	1800	15.368	0.008	0.1	0.0057	0.0000	OK
4320 minute winter	SW-TH-IC04	1800	15.222	0.012	0.2	0.0116	0.0000	OK
4320 minute winter	SW-TH-IC08	1800	15.017	0.012	0.3	0.0034	0.0000	OK
4320 minute winter	TANK	2040	14.994	0.009	0.3	0.7968	0.0000	OK
4320 minute winter	SW-TH-MH01	2040	14.988	0.043	0.3	0.0482	0.0000	OK
4320 minute winter	SW-R-MH02	2040	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
4320 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
4320 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
4320 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
4320 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
4320 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
4320 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
4320 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
4320 minute winter	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
4320 minute winter	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0029	
4320 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.406	0.005	0.0060	24.5

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Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SW-TH-IC06	495	15.484	0.019	0.6	0.0063	0.0000	OK
960 minute summer	SW-TH-IC07	705	15.420	0.260	1.9	0.1885	0.0000	SURCHARGED
960 minute summer	SW-TH-RE01	480	15.701	0.014	0.3	0.0078	0.0000	OK
960 minute summer	SW-TH-IC01	480	15.635	0.020	0.7	0.0114	0.0000	OK
960 minute summer	SW-TH-IC02	480	15.484	0.019	0.8	0.0063	0.0000	OK
960 minute summer	SW-TH-IC03	705	15.421	0.061	1.7	0.0410	0.0000	OK
960 minute summer	SW-TH-IC04	690	15.419	0.209	3.3	0.2094	0.0000	OK
960 minute summer	SW-TH-IC08	705	15.423	0.418	5.1	0.1183	0.0000	SURCHARGED
960 minute summer	TANK	705	15.419	0.434	10.2	38.2674	0.0000	SURCHARGED
960 minute summer	SW-TH-MH01	780	15.416	0.471	11.6	0.5327	0.0000	SURCHARGED
960 minute summer	SW-R-MH02	480	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.6	0.257	0.034	0.2837	
960 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.8	0.591	0.102	0.0440	
960 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.219	0.007	0.0162	
960 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.0372	
960 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.338	0.015	0.0427	
960 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.7	0.392	0.043	0.6011	
960 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	3.3	0.376	0.083	1.3617	
960 minute summer	SW-TH-IC08	1.005	TANK	5.0	0.656	0.077	0.0517	
960 minute summer	TANK	1.006	SW-TH-MH01	11.6	0.425	0.111	0.0398	
960 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	51.5

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Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.74%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute winter	SW-TH-IC06	750	15.492	0.027	0.4	0.0090	0.0000	OK
960 minute winter	SW-TH-IC07	750	15.491	0.331	1.3	0.2396	0.0000	SURCHARGED
960 minute winter	SW-TH-RE01	390	15.698	0.011	0.2	0.0064	0.0000	OK
960 minute winter	SW-TH-IC01	435	15.632	0.017	0.5	0.0097	0.0000	OK
960 minute winter	SW-TH-IC02	765	15.491	0.026	0.6	0.0086	0.0000	OK
960 minute winter	SW-TH-IC03	765	15.490	0.130	1.3	0.0879	0.0000	OK
960 minute winter	SW-TH-IC04	750	15.491	0.281	2.5	0.2815	0.0000	SURCHARGED
960 minute winter	SW-TH-IC08	765	15.489	0.484	3.7	0.1370	0.0000	SURCHARGED
960 minute winter	TANK	750	15.488	0.503	10.8	44.4242	0.0000	SURCHARGED
960 minute winter	SW-TH-MH01	750	15.491	0.546	12.4	0.6175	0.0000	SURCHARGED
960 minute winter	SW-R-MH02	450	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.250	0.023	0.3020	
960 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.4	0.546	0.077	0.0440	
960 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0125	
960 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.5	0.370	0.012	0.0348	
960 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.309	0.011	0.1242	
960 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.3	0.369	0.033	0.8123	
960 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	2.5	0.377	0.063	1.3846	
960 minute winter	SW-TH-IC08	1.005	TANK	4.5	0.661	0.069	0.0517	
960 minute winter	TANK	1.006	SW-TH-MH01	10.6	0.409	0.102	0.0398	
960 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	53.0

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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	SW-TH-IC10	30	16.474	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SW-TH-IC06	750	15.481	0.016	0.4	0.0052	0.0000	OK
1440 minute summer	SW-TH-IC07	960	15.353	0.193	1.3	0.1394	0.0000	SURCHARGED
1440 minute summer	SW-TH-RE01	690	15.698	0.011	0.2	0.0064	0.0000	OK
1440 minute summer	SW-TH-IC01	750	15.632	0.017	0.5	0.0097	0.0000	OK
1440 minute summer	SW-TH-IC02	750	15.482	0.017	0.6	0.0056	0.0000	OK
1440 minute summer	SW-TH-IC03	750	15.387	0.027	1.2	0.0180	0.0000	OK
1440 minute summer	SW-TH-IC04	990	15.353	0.143	2.3	0.1435	0.0000	OK
1440 minute summer	SW-TH-IC08	960	15.354	0.349	3.6	0.0989	0.0000	SURCHARGED
1440 minute summer	TANK	990	15.352	0.367	8.4	32.4078	0.0000	SURCHARGED
1440 minute summer	SW-TH-MH01	960	15.350	0.405	10.0	0.4586	0.0000	SURCHARGED
1440 minute summer	SW-R-MH02	1500	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
1440 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.240	0.023	0.2782	
1440 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.3	0.523	0.072	0.0440	
1440 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0125	
1440 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.5	0.370	0.012	0.0299	
1440 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.309	0.011	0.0187	
1440 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.2	0.355	0.030	0.3533	
1440 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	2.3	0.377	0.058	1.1558	
1440 minute summer	SW-TH-IC08	1.005	TANK	3.5	0.606	0.053	0.0517	
1440 minute summer	TANK	1.006	SW-TH-MH01	9.6	0.387	0.092	0.0398	
1440 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	71.3

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

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW-TH-IC10	30	16.474	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	SW-TH-IC06	690	15.479	0.014	0.3	0.0045	0.0000	OK
1440 minute winter	SW-TH-IC07	1080	15.394	0.234	1.0	0.1692	0.0000	SURCHARGED
1440 minute winter	SW-TH-RE01	720	15.698	0.011	0.2	0.0064	0.0000	OK
1440 minute winter	SW-TH-IC01	720	15.631	0.016	0.4	0.0087	0.0000	OK
1440 minute winter	SW-TH-IC02	720	15.480	0.015	0.5	0.0051	0.0000	OK
1440 minute winter	SW-TH-IC03	1110	15.393	0.033	1.0	0.0223	0.0000	OK
1440 minute winter	SW-TH-IC04	1110	15.392	0.182	1.8	0.1829	0.0000	OK
1440 minute winter	SW-TH-IC08	1110	15.396	0.391	2.7	0.1107	0.0000	SURCHARGED
1440 minute winter	TANK	1080	15.392	0.407	8.3	35.9035	0.0000	SURCHARGED
1440 minute winter	SW-TH-MH01	1080	15.397	0.452	7.6	0.5116	0.0000	SURCHARGED
1440 minute winter	SW-R-MH02	720	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
1440 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.3	0.232	0.017	0.2781	
1440 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.3	0.506	0.072	0.0440	
1440 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0113	
1440 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.4	0.342	0.009	0.0259	
1440 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.5	0.292	0.009	0.0198	
1440 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.0	0.344	0.025	0.4866	
1440 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.8	0.378	0.045	1.2923	
1440 minute winter	SW-TH-IC08	1.005	TANK	2.7	0.583	0.042	0.0517	
1440 minute winter	TANK	1.006	SW-TH-MH01	5.9	0.263	0.057	0.0398	
1440 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	72.7

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SW-TH-IC06	1140	15.479	0.014	0.3	0.0045	0.0000	OK
2160 minute summer	SW-TH-IC07	1380	15.266	0.106	0.9	0.0770	0.0000	OK
2160 minute summer	SW-TH-RE01	900	15.695	0.008	0.1	0.0047	0.0000	OK
2160 minute summer	SW-TH-IC01	1080	15.629	0.014	0.3	0.0077	0.0000	OK
2160 minute summer	SW-TH-IC02	1080	15.477	0.012	0.3	0.0040	0.0000	OK
2160 minute summer	SW-TH-IC03	1140	15.381	0.021	0.7	0.0140	0.0000	OK
2160 minute summer	SW-TH-IC04	1380	15.266	0.056	1.4	0.0565	0.0000	OK
2160 minute summer	SW-TH-IC08	1380	15.266	0.261	2.3	0.0740	0.0000	SURCHARGED
2160 minute summer	TANK	1380	15.266	0.281	3.6	24.8228	0.0000	SURCHARGED
2160 minute summer	SW-TH-MH01	1380	15.266	0.321	3.7	0.3634	0.0000	SURCHARGED
2160 minute summer	SW-R-MH02	1140	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2160 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.3	0.246	0.017	0.2096	
2160 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.9	0.506	0.051	0.0371	
2160 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
2160 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
2160 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.0124	
2160 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.7	0.297	0.018	0.1121	
2160 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.4	0.362	0.035	0.8275	
2160 minute summer	SW-TH-IC08	1.005	TANK	2.2	0.542	0.035	0.0517	
2160 minute summer	TANK	1.006	SW-TH-MH01	3.7	0.423	0.036	0.0398	
2160 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	82.7

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Results for 30 year 2160 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	SW-TH-IC06	960	15.476	0.011	0.2	0.0038	0.0000	OK
2160 minute winter	SW-TH-IC07	1440	15.264	0.104	0.7	0.0753	0.0000	OK
2160 minute winter	SW-TH-RE01	840	15.695	0.008	0.1	0.0047	0.0000	OK
2160 minute winter	SW-TH-IC01	1140	15.629	0.014	0.3	0.0077	0.0000	OK
2160 minute winter	SW-TH-IC02	1140	15.477	0.012	0.3	0.0040	0.0000	OK
2160 minute winter	SW-TH-IC03	1140	15.379	0.019	0.6	0.0130	0.0000	OK
2160 minute winter	SW-TH-IC04	1440	15.264	0.054	1.2	0.0543	0.0000	OK
2160 minute winter	SW-TH-IC08	1440	15.264	0.259	1.9	0.0733	0.0000	SURCHARGED
2160 minute winter	TANK	1440	15.264	0.279	3.0	24.6190	0.0000	SURCHARGED
2160 minute winter	SW-TH-MH01	1440	15.264	0.319	3.7	0.3608	0.0000	SURCHARGED
2160 minute winter	SW-R-MH02	1800	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2160 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.225	0.011	0.2048	
2160 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.9	0.471	0.052	0.0364	
2160 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
2160 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
2160 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.0115	
2160 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.6	0.283	0.015	0.1093	
2160 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.2	0.367	0.030	0.8197	
2160 minute winter	SW-TH-IC08	1.005	TANK	2.7	0.556	0.041	0.0517	
2160 minute winter	TANK	1.006	SW-TH-MH01	3.7	0.400	0.035	0.0398	
2160 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	91.9

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SW-TH-IC06	1440	15.476	0.011	0.2	0.0038	0.0000	OK
2880 minute summer	SW-TH-IC07	1740	15.199	0.039	0.7	0.0282	0.0000	OK
2880 minute summer	SW-TH-RE01	1260	15.695	0.008	0.1	0.0047	0.0000	OK
2880 minute summer	SW-TH-IC01	1500	15.629	0.014	0.3	0.0077	0.0000	OK
2880 minute summer	SW-TH-IC02	1500	15.477	0.012	0.3	0.0040	0.0000	OK
2880 minute summer	SW-TH-IC03	1500	15.379	0.019	0.6	0.0130	0.0000	OK
2880 minute summer	SW-TH-IC04	1500	15.237	0.027	1.2	0.0268	0.0000	OK
2880 minute summer	SW-TH-IC08	1740	15.198	0.193	1.9	0.0547	0.0000	OK
2880 minute summer	TANK	1740	15.198	0.213	4.5	18.8205	0.0000	OK
2880 minute summer	SW-TH-MH01	1740	15.198	0.253	3.0	0.2865	0.0000	SURCHARGED
2880 minute summer	SW-R-MH02	1620	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2880 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.217	0.011	0.0611	
2880 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.7	0.472	0.039	0.0134	
2880 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
2880 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
2880 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.0115	
2880 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.6	0.283	0.015	0.0546	
2880 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.2	0.361	0.030	0.6638	
2880 minute summer	SW-TH-IC08	1.005	TANK	3.4	0.520	0.052	0.0489	
2880 minute summer	TANK	1.006	SW-TH-MH01	3.0	0.226	0.029	0.0394	
2880 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	81.2

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Results for 30 year 2880 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	SW-TH-IC06	1440	15.476	0.011	0.2	0.0038	0.0000	OK
2880 minute winter	SW-TH-IC07	1500	15.180	0.020	0.6	0.0144	0.0000	OK
2880 minute winter	SW-TH-RE01	1140	15.695	0.008	0.1	0.0047	0.0000	OK
2880 minute winter	SW-TH-IC01	1140	15.626	0.011	0.2	0.0064	0.0000	OK
2880 minute winter	SW-TH-IC02	1140	15.475	0.010	0.2	0.0034	0.0000	OK
2880 minute winter	SW-TH-IC03	1500	15.378	0.018	0.5	0.0119	0.0000	OK
2880 minute winter	SW-TH-IC04	1500	15.233	0.023	0.9	0.0234	0.0000	OK
2880 minute winter	SW-TH-IC08	1860	15.180	0.175	1.9	0.0496	0.0000	OK
2880 minute winter	TANK	1860	15.181	0.196	2.4	17.2642	0.0000	OK
2880 minute winter	SW-TH-MH01	1860	15.181	0.236	4.8	0.2665	0.0000	SURCHARGED
2880 minute winter	SW-R-MH02	1800	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2880 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.226	0.011	0.0302	
2880 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.6	0.452	0.034	0.0071	
2880 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
2880 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
2880 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0096	
2880 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.280	0.013	0.0460	
2880 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.9	0.368	0.023	0.6098	
2880 minute winter	SW-TH-IC08	1.005	TANK	1.7	0.556	0.027	0.0454	
2880 minute winter	TANK	1.006	SW-TH-MH01	4.8	0.415	0.046	0.0382	
2880 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	94.5

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SW-TH-IC06	2220	15.476	0.011	0.2	0.0038	0.0000	OK
4320 minute summer	SW-TH-IC07	2220	15.178	0.018	0.5	0.0131	0.0000	OK
4320 minute summer	SW-TH-RE01	1980	15.695	0.008	0.1	0.0047	0.0000	OK
4320 minute summer	SW-TH-IC01	1980	15.626	0.011	0.2	0.0064	0.0000	OK
4320 minute summer	SW-TH-IC02	1980	15.475	0.010	0.2	0.0034	0.0000	OK
4320 minute summer	SW-TH-IC03	2220	15.378	0.018	0.5	0.0119	0.0000	OK
4320 minute summer	SW-TH-IC04	2220	15.233	0.023	0.9	0.0234	0.0000	OK
4320 minute summer	SW-TH-IC08	2460	15.124	0.119	1.4	0.0337	0.0000	OK
4320 minute summer	TANK	2460	15.124	0.139	2.4	12.2629	0.0000	OK
4320 minute summer	SW-TH-MH01	2460	15.126	0.181	4.7	0.2043	0.0000	OK
4320 minute summer	SW-R-MH02	2460	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
4320 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.226	0.011	0.0276	
4320 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.5	0.428	0.028	0.0029	
4320 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
4320 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
4320 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0096	
4320 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.280	0.013	0.0460	
4320 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.9	0.368	0.023	0.4024	
4320 minute summer	SW-TH-IC08	1.005	TANK	1.5	0.520	0.023	0.0306	
4320 minute summer	TANK	1.006	SW-TH-MH01	4.7	0.416	0.045	0.0300	
4320 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.569	0.015	0.0131	76.7

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Results for 30 year 4320 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC06	1500	15.473	0.008	0.1	0.0027	0.0000	OK
4320 minute winter	SW-TH-IC07	2160	15.176	0.016	0.4	0.0118	0.0000	OK
4320 minute winter	SW-TH-RE01	1920	15.695	0.008	0.1	0.0047	0.0000	OK
4320 minute winter	SW-TH-IC01	1920	15.626	0.011	0.2	0.0064	0.0000	OK
4320 minute winter	SW-TH-IC02	1920	15.475	0.010	0.2	0.0034	0.0000	OK
4320 minute winter	SW-TH-IC03	1920	15.376	0.016	0.4	0.0108	0.0000	OK
4320 minute winter	SW-TH-IC04	1920	15.231	0.021	0.7	0.0208	0.0000	OK
4320 minute winter	SW-TH-IC08	2520	15.103	0.098	1.1	0.0278	0.0000	OK
4320 minute winter	TANK	2520	15.103	0.118	2.6	10.4281	0.0000	OK
4320 minute winter	SW-TH-MH01	2580	15.105	0.160	4.5	0.1811	0.0000	OK
4320 minute winter	SW-R-MH02	2520	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
4320 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
4320 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0025	
4320 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
4320 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
4320 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
4320 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0389	
4320 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.379	0.018	0.3210	
4320 minute winter	SW-TH-IC08	1.005	TANK	1.9	0.521	0.030	0.0245	
4320 minute winter	TANK	1.006	SW-TH-MH01	4.5	0.377	0.043	0.0255	
4320 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.566	0.014	0.0130	96.3

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Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 84.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute summer	SW-TH-IC06	570	15.798	0.333	1.1	0.1108	0.0000	SURCHARGED
960 minute summer	SW-TH-IC07	660	15.791	0.631	3.4	0.4569	0.0000	SURCHARGED
960 minute summer	SW-TH-RE01	600	15.788	0.101	0.6	0.0569	0.0000	OK
960 minute summer	SW-TH-IC01	600	15.789	0.174	1.4	0.0967	0.0000	OK
960 minute summer	SW-TH-IC02	600	15.788	0.323	1.6	0.1080	0.0000	SURCHARGED
960 minute summer	SW-TH-IC03	600	15.788	0.428	3.2	0.2888	0.0000	SURCHARGED
960 minute summer	SW-TH-IC04	600	15.788	0.578	6.0	0.5797	0.0000	SURCHARGED
960 minute summer	SW-TH-IC08	570	15.790	0.785	10.2	0.2221	0.0000	SURCHARGED
960 minute summer	TANK	600	15.787	0.802	14.1	70.6341	0.0000	SURCHARGED
960 minute summer	SW-TH-MH01	600	15.788	0.843	7.0	0.9532	0.0000	SURCHARGED
960 minute summer	SW-R-MH02	690	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.258	0.056	0.5379	
960 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	3.2	0.558	0.183	0.0440	
960 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.8	0.275	0.020	0.2934	
960 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.4	0.486	0.033	0.8031	
960 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.4	0.387	0.026	0.3749	
960 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	2.9	0.413	0.074	1.0158	
960 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	5.9	0.380	0.149	1.3846	
960 minute summer	SW-TH-IC08	1.005	TANK	9.5	0.873	0.146	0.0517	
960 minute summer	TANK	1.006	SW-TH-MH01	-5.8	0.411	-0.056	0.0398	
960 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	63.6

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Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 75.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SW-TH-IC10	15	16.474	0.000	0.0	0.0000	0.0000	OK
960 minute winter	SW-TH-IC06	750	15.791	0.326	0.8	0.1087	0.0000	SURCHARGED
960 minute winter	SW-TH-IC07	750	15.788	0.628	2.5	0.4549	0.0000	SURCHARGED
960 minute winter	SW-TH-RE01	555	15.792	0.105	1.3	0.0590	0.0000	OK
960 minute winter	SW-TH-IC01	570	15.795	0.180	2.6	0.1001	0.0000	OK
960 minute winter	SW-TH-IC02	570	15.799	0.334	2.4	0.1114	0.0000	SURCHARGED
960 minute winter	SW-TH-IC03	570	15.799	0.439	2.5	0.2956	0.0000	SURCHARGED
960 minute winter	SW-TH-IC04	570	15.790	0.580	4.6	0.5818	0.0000	SURCHARGED
960 minute winter	SW-TH-IC08	930	15.797	0.792	19.6	0.2242	0.0000	SURCHARGED
960 minute winter	TANK	705	15.786	0.801	7.1	70.6302	0.0000	SURCHARGED
960 minute winter	SW-TH-MH01	705	15.787	0.842	4.6	0.9527	0.0000	SURCHARGED
960 minute winter	SW-R-MH02	840	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
960 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.0	0.240	0.054	0.5379	
960 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	13.5	0.764	0.758	0.0440	
960 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	-1.1	0.266	-0.027	0.3045	
960 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	-2.3	0.467	-0.053	0.8153	
960 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	-2.3	0.358	-0.042	0.3749	
960 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	2.8	0.389	0.071	1.0158	
960 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	6.2	0.382	0.155	1.3846	
960 minute winter	SW-TH-IC08	1.005	TANK	7.1	0.829	0.110	0.0517	
960 minute winter	TANK	1.006	SW-TH-MH01	4.6	0.378	0.044	0.0398	
960 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	63.7

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Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 92.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	SW-TH-IC10	30	16.474	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	SW-TH-IC06	990	15.790	0.325	0.7	0.1081	0.0000	SURCHARGED
1440 minute summer	SW-TH-IC07	990	15.789	0.629	2.4	0.4555	0.0000	SURCHARGED
1440 minute summer	SW-TH-RE01	870	15.790	0.103	0.4	0.0577	0.0000	OK
1440 minute summer	SW-TH-IC01	1080	15.788	0.173	1.0	0.0965	0.0000	OK
1440 minute summer	SW-TH-IC02	900	15.788	0.323	1.1	0.1079	0.0000	SURCHARGED
1440 minute summer	SW-TH-IC03	900	15.788	0.428	2.3	0.2883	0.0000	SURCHARGED
1440 minute summer	SW-TH-IC04	1080	15.787	0.577	4.2	0.5788	0.0000	SURCHARGED
1440 minute summer	SW-TH-IC08	1170	15.790	0.785	6.3	0.2222	0.0000	SURCHARGED
1440 minute summer	TANK	1020	15.785	0.800	13.0	70.6182	0.0000	SURCHARGED
1440 minute summer	SW-TH-MH01	870	15.791	0.846	10.0	0.9573	0.0000	SURCHARGED
1440 minute summer	SW-R-MH02	1020	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
1440 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.7	0.232	0.039	0.5379	
1440 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	2.3	0.534	0.131	0.0440	
1440 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.4	0.237	0.010	0.2948	
1440 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	1.0	0.467	0.023	0.8019	
1440 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	1.1	0.341	0.020	0.3749	
1440 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	2.1	0.363	0.052	1.0158	
1440 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	4.0	0.379	0.100	1.3846	
1440 minute summer	SW-TH-IC08	1.005	TANK	6.3	0.704	0.097	0.0517	
1440 minute summer	TANK	1.006	SW-TH-MH01	9.9	0.340	0.094	0.0398	
1440 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	85.5

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Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 84.12%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW-TH-IC10	30	16.474	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	SW-TH-IC06	900	15.790	0.325	0.6	0.1084	0.0000	SURCHARGED
1440 minute winter	SW-TH-IC07	960	15.787	0.627	2.2	0.4539	0.0000	SURCHARGED
1440 minute winter	SW-TH-RE01	1230	15.790	0.103	0.5	0.0577	0.0000	OK
1440 minute winter	SW-TH-IC01	1230	15.789	0.174	1.3	0.0968	0.0000	OK
1440 minute winter	SW-TH-IC02	1200	15.788	0.323	1.5	0.1080	0.0000	SURCHARGED
1440 minute winter	SW-TH-IC03	1200	15.788	0.428	2.1	0.2887	0.0000	SURCHARGED
1440 minute winter	SW-TH-IC04	1200	15.788	0.578	3.2	0.5796	0.0000	SURCHARGED
1440 minute winter	SW-TH-IC08	1170	15.797	0.792	5.1	0.2241	0.0000	SURCHARGED
1440 minute winter	TANK	960	15.788	0.803	11.4	70.6279	0.0000	SURCHARGED
1440 minute winter	SW-TH-MH01	900	15.793	0.848	12.8	0.9595	0.0000	SURCHARGED
1440 minute winter	SW-R-MH02	960	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
1440 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	1.2	0.231	0.065	0.5379	
1440 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	2.0	0.505	0.115	0.0440	
1440 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	1.0	0.234	0.024	0.2955	
1440 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	1.4	0.417	0.032	0.8031	
1440 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	1.3	0.338	0.023	0.3749	
1440 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.9	0.354	0.048	1.0158	
1440 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	3.1	0.380	0.077	1.3846	
1440 minute winter	SW-TH-IC08	1.005	TANK	5.5	0.714	0.086	0.0517	
1440 minute winter	TANK	1.006	SW-TH-MH01	12.8	0.412	0.122	0.0398	
1440 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	87.4

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Results for 100 year +40% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2160 minute summer	SW-TH-IC06	1500	15.787	0.322	0.5	0.1073	0.0000	SURCHARGED
2160 minute summer	SW-TH-IC07	1500	15.788	0.628	1.6	0.4547	0.0000	SURCHARGED
2160 minute summer	SW-TH-RE01	1500	15.787	0.100	0.3	0.0560	0.0000	OK
2160 minute summer	SW-TH-IC01	1500	15.787	0.172	0.7	0.0958	0.0000	OK
2160 minute summer	SW-TH-IC02	1500	15.786	0.321	0.8	0.1072	0.0000	SURCHARGED
2160 minute summer	SW-TH-IC03	1500	15.786	0.426	1.6	0.2872	0.0000	SURCHARGED
2160 minute summer	SW-TH-IC04	1500	15.786	0.576	3.0	0.5779	0.0000	SURCHARGED
2160 minute summer	SW-TH-IC08	1500	15.790	0.785	4.2	0.2222	0.0000	SURCHARGED
2160 minute summer	TANK	1500	15.785	0.800	7.8	70.5752	0.0000	SURCHARGED
2160 minute summer	SW-TH-MH01	1440	15.783	0.838	4.6	0.9479	0.0000	SURCHARGED
2160 minute summer	SW-R-MH02	1500	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2160 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.5	0.221	0.028	0.5379	
2160 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.5	0.520	0.084	0.0440	
2160 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.222	0.007	0.2896	
2160 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.7	0.417	0.016	0.7994	
2160 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.8	0.338	0.014	0.3749	
2160 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.6	0.354	0.040	1.0158	
2160 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	2.7	0.376	0.068	1.3846	
2160 minute summer	SW-TH-IC08	1.005	TANK	4.4	0.517	0.068	0.0517	
2160 minute summer	TANK	1.006	SW-TH-MH01	4.6	0.411	0.044	0.0398	
2160 minute summer	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	109.8

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Results for 100 year +40% CC 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 93.25%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2160 minute winter	SW-TH-IC06	1380	15.788	0.323	0.4	0.1077	0.0000	SURCHARGED
2160 minute winter	SW-TH-IC07	1440	15.787	0.627	1.4	0.4539	0.0000	SURCHARGED
2160 minute winter	SW-TH-RE01	1380	15.789	0.102	0.2	0.0572	0.0000	OK
2160 minute winter	SW-TH-IC01	1380	15.788	0.173	0.5	0.0965	0.0000	OK
2160 minute winter	SW-TH-IC02	1380	15.788	0.323	0.6	0.1079	0.0000	SURCHARGED
2160 minute winter	SW-TH-IC03	1380	15.788	0.428	1.2	0.2884	0.0000	SURCHARGED
2160 minute winter	SW-TH-IC04	1380	15.787	0.577	2.2	0.5788	0.0000	SURCHARGED
2160 minute winter	SW-TH-IC08	1620	15.787	0.782	3.4	0.2213	0.0000	SURCHARGED
2160 minute winter	TANK	1380	15.786	0.801	3.9	70.6319	0.0000	SURCHARGED
2160 minute winter	SW-TH-MH01	1560	15.785	0.840	6.8	0.9499	0.0000	SURCHARGED
2160 minute winter	SW-R-MH02	1440	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2160 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.5	0.207	0.027	0.5379	
2160 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.5	0.472	0.086	0.0440	
2160 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.3	0.208	0.007	0.2935	
2160 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.6	0.370	0.013	0.8019	
2160 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.308	0.011	0.3749	
2160 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.2	0.344	0.030	1.0158	
2160 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	2.1	0.379	0.054	1.3846	
2160 minute winter	SW-TH-IC08	1.005	TANK	3.9	0.554	0.060	0.0517	
2160 minute winter	TANK	1.006	SW-TH-MH01	6.8	0.352	0.065	0.0398	
2160 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.586	0.016	0.0140	117.6

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Results for 100 year +40% CC 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2880 minute summer	SW-TH-IC06	1920	15.673	0.208	0.4	0.0692	0.0000	SURCHARGED
2880 minute summer	SW-TH-IC07	1920	15.669	0.509	1.3	0.3685	0.0000	SURCHARGED
2880 minute summer	SW-TH-RE01	1380	15.698	0.011	0.2	0.0064	0.0000	OK
2880 minute summer	SW-TH-IC01	1920	15.674	0.059	0.5	0.0328	0.0000	OK
2880 minute summer	SW-TH-IC02	1920	15.674	0.209	0.6	0.0697	0.0000	OK
2880 minute summer	SW-TH-IC03	1920	15.673	0.313	1.2	0.2111	0.0000	SURCHARGED
2880 minute summer	SW-TH-IC04	1920	15.672	0.462	2.3	0.4631	0.0000	SURCHARGED
2880 minute summer	SW-TH-IC08	1920	15.671	0.666	3.4	0.1886	0.0000	SURCHARGED
2880 minute summer	TANK	1920	15.671	0.686	7.7	60.5133	0.0000	SURCHARGED
2880 minute summer	SW-TH-MH01	1920	15.668	0.723	9.9	0.8174	0.0000	SURCHARGED
2880 minute summer	SW-R-MH02	1920	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2880 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.232	0.023	0.5379	
2880 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.2	0.506	0.070	0.0440	
2880 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.209	0.005	0.0510	
2880 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.5	0.370	0.013	0.5163	
2880 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.308	0.011	0.3688	
2880 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.2	0.337	0.030	1.0158	
2880 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	2.1	0.370	0.053	1.3846	
2880 minute summer	SW-TH-IC08	1.005	TANK	4.0	0.521	0.061	0.0517	
2880 minute summer	TANK	1.006	SW-TH-MH01	8.1	0.407	0.078	0.0398	
2880 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.575	0.015	0.0134	130.3

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Results for 100 year +40% CC 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
2880 minute winter	SW-TH-IC06	2100	15.774	0.309	0.4	0.1028	0.0000	SURCHARGED
2880 minute winter	SW-TH-IC07	2040	15.772	0.612	1.0	0.4432	0.0000	SURCHARGED
2880 minute winter	SW-TH-RE01	2040	15.772	0.085	0.2	0.0477	0.0000	OK
2880 minute winter	SW-TH-IC01	2040	15.771	0.156	0.4	0.0872	0.0000	OK
2880 minute winter	SW-TH-IC02	2040	15.772	0.307	0.6	0.1025	0.0000	SURCHARGED
2880 minute winter	SW-TH-IC03	2040	15.772	0.412	1.0	0.2778	0.0000	SURCHARGED
2880 minute winter	SW-TH-IC04	2040	15.772	0.562	1.8	0.5638	0.0000	SURCHARGED
2880 minute winter	SW-TH-IC08	2040	15.772	0.767	3.1	0.2171	0.0000	SURCHARGED
2880 minute winter	TANK	2040	15.772	0.787	3.4	69.4220	0.0000	SURCHARGED
2880 minute winter	SW-TH-MH01	2040	15.772	0.827	3.8	0.9349	0.0000	SURCHARGED
2880 minute winter	SW-R-MH02	2100	14.845	0.020	1.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
2880 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.225	0.021	0.5379	
2880 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.5	0.472	0.083	0.0440	
2880 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.209	0.005	0.2522	
2880 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.6	0.342	0.013	0.7652	
2880 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.7	0.305	0.013	0.3749	
2880 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	1.1	0.306	0.028	1.0158	
2880 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.8	0.370	0.044	1.3846	
2880 minute winter	SW-TH-IC08	1.005	TANK	3.2	0.556	0.050	0.0517	
2880 minute winter	TANK	1.006	SW-TH-MH01	3.8	0.308	0.036	0.0398	
2880 minute winter	SW-TH-MH01	1.007	SW-R-MH02	1.0	0.585	0.016	0.0140	141.8

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
4320 minute summer	SW-TH-IC06	2760	15.538	0.073	0.3	0.0244	0.0000	OK
4320 minute summer	SW-TH-IC07	2760	15.538	0.378	0.9	0.2738	0.0000	SURCHARGED
4320 minute summer	SW-TH-RE01	2220	15.698	0.011	0.2	0.0064	0.0000	OK
4320 minute summer	SW-TH-IC01	2220	15.631	0.016	0.4	0.0087	0.0000	OK
4320 minute summer	SW-TH-IC02	2700	15.537	0.072	0.5	0.0242	0.0000	OK
4320 minute summer	SW-TH-IC03	2700	15.537	0.177	1.0	0.1196	0.0000	OK
4320 minute summer	SW-TH-IC04	2760	15.538	0.328	1.8	0.3287	0.0000	SURCHARGED
4320 minute summer	SW-TH-IC08	2700	15.539	0.534	3.1	0.1510	0.0000	SURCHARGED
4320 minute summer	TANK	2700	15.537	0.552	9.2	48.7086	0.0000	SURCHARGED
4320 minute summer	SW-TH-MH01	2700	15.536	0.591	2.6	0.6679	0.0000	SURCHARGED
4320 minute summer	SW-R-MH02	2100	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
4320 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.4	0.225	0.020	0.3996	
4320 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.5	0.471	0.087	0.0440	
4320 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.2	0.208	0.005	0.0113	
4320 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.4	0.342	0.009	0.1297	
4320 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.6	0.292	0.011	0.2102	
4320 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	1.0	0.306	0.025	0.9368	
4320 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.7	0.370	0.043	1.3846	
4320 minute summer	SW-TH-IC08	1.005	TANK	3.6	0.520	0.056	0.0517	
4320 minute summer	TANK	1.006	SW-TH-MH01	-6.6	0.366	-0.063	0.0398	
4320 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	165.1

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Results for 100 year +40% CC 4320 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
4320 minute winter	SW-TH-IC06	2940	15.554	0.089	0.2	0.0295	0.0000	OK
4320 minute winter	SW-TH-IC07	2940	15.554	0.394	0.7	0.2854	0.0000	SURCHARGED
4320 minute winter	SW-TH-RE01	1500	15.695	0.008	0.1	0.0047	0.0000	OK
4320 minute winter	SW-TH-IC01	2160	15.629	0.014	0.3	0.0077	0.0000	OK
4320 minute winter	SW-TH-IC02	2940	15.553	0.088	0.3	0.0295	0.0000	OK
4320 minute winter	SW-TH-IC03	2940	15.553	0.193	0.6	0.1302	0.0000	OK
4320 minute winter	SW-TH-IC04	2940	15.553	0.343	1.4	0.3440	0.0000	SURCHARGED
4320 minute winter	SW-TH-IC08	2940	15.555	0.550	2.3	0.1557	0.0000	SURCHARGED
4320 minute winter	TANK	2940	15.553	0.568	7.2	50.1053	0.0000	SURCHARGED
4320 minute winter	SW-TH-MH01	3000	15.552	0.607	9.7	0.6868	0.0000	SURCHARGED
4320 minute winter	SW-R-MH02	1980	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
4320 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
4320 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.218	0.012	0.4346	
4320 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.2	0.452	0.066	0.0440	
4320 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.172	0.002	0.0085	
4320 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.1674	
4320 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.2391	
4320 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.9	0.282	0.023	0.9714	
4320 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.6	0.376	0.041	1.3846	
4320 minute winter	SW-TH-IC08	1.005	TANK	2.4	0.542	0.038	0.0517	
4320 minute winter	TANK	1.006	SW-TH-MH01	9.7	0.423	0.093	0.0398	
4320 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	185.7

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC06	2940	15.473	0.008	0.1	0.0027	0.0000	OK
5760 minute summer	SW-TH-IC07	2940	15.172	0.012	0.2	0.0084	0.0000	OK
5760 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC03	2580	15.368	0.008	0.1	0.0057	0.0000	OK
5760 minute summer	SW-TH-IC04	2940	15.224	0.014	0.3	0.0141	0.0000	OK
5760 minute summer	SW-TH-IC08	2880	15.020	0.015	0.5	0.0043	0.0000	OK
5760 minute summer	TANK	2940	14.999	0.014	0.5	1.2052	0.0000	OK
5760 minute summer	SW-TH-MH01	2940	15.003	0.058	0.6	0.0656	0.0000	OK
5760 minute summer	SW-R-MH02	2940	14.839	0.014	0.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0152	
5760 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.2	0.328	0.011	0.0015	
5760 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
5760 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0189	
5760 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.3	0.280	0.008	0.0374	
5760 minute summer	SW-TH-IC08	1.005	TANK	0.5	0.542	0.008	0.0014	
5760 minute summer	TANK	1.006	SW-TH-MH01	0.6	0.173	0.006	0.0045	
5760 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.5	0.457	0.007	0.0081	22.3

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC06	2400	15.473	0.008	0.1	0.0027	0.0000	OK
5760 minute summer	SW-TH-IC07	2880	15.176	0.016	0.4	0.0118	0.0000	OK
5760 minute summer	SW-TH-RE01	2760	15.695	0.008	0.1	0.0047	0.0000	OK
5760 minute summer	SW-TH-IC01	2760	15.626	0.011	0.2	0.0064	0.0000	OK
5760 minute summer	SW-TH-IC02	2760	15.475	0.010	0.2	0.0034	0.0000	OK
5760 minute summer	SW-TH-IC03	2760	15.376	0.016	0.4	0.0108	0.0000	OK
5760 minute summer	SW-TH-IC04	2940	15.232	0.022	0.8	0.0221	0.0000	OK
5760 minute summer	SW-TH-IC08	3120	15.090	0.085	1.2	0.0242	0.0000	OK
5760 minute summer	TANK	3120	15.090	0.105	3.4	9.3057	0.0000	OK
5760 minute summer	SW-TH-MH01	3120	15.091	0.146	4.6	0.1646	0.0000	OK
5760 minute summer	SW-R-MH02	3180	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
5760 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0025	
5760 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
5760 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
5760 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
5760 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0412	
5760 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.8	0.376	0.020	0.2722	
5760 minute summer	SW-TH-IC08	1.005	TANK	2.5	0.521	0.039	0.0209	
5760 minute summer	TANK	1.006	SW-TH-MH01	4.6	0.384	0.044	0.0227	
5760 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.563	0.014	0.0128	74.7

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC06	2700	15.476	0.011	0.2	0.0038	0.0000	OK
5760 minute summer	SW-TH-IC07	3540	15.422	0.262	0.7	0.1899	0.0000	SURCHARGED
5760 minute summer	SW-TH-RE01	2400	15.695	0.008	0.1	0.0047	0.0000	OK
5760 minute summer	SW-TH-IC01	2880	15.629	0.014	0.3	0.0077	0.0000	OK
5760 minute summer	SW-TH-IC02	2880	15.477	0.012	0.3	0.0040	0.0000	OK
5760 minute summer	SW-TH-IC03	3540	15.422	0.062	0.7	0.0421	0.0000	OK
5760 minute summer	SW-TH-IC04	3480	15.422	0.212	1.3	0.2124	0.0000	OK
5760 minute summer	SW-TH-IC08	3600	15.424	0.419	2.3	0.1187	0.0000	SURCHARGED
5760 minute summer	TANK	3540	15.423	0.438	11.3	38.6542	0.0000	SURCHARGED
5760 minute summer	SW-TH-MH01	3540	15.423	0.478	10.4	0.5406	0.0000	SURCHARGED
5760 minute summer	SW-R-MH02	4380	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.225	0.011	0.2781	
5760 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.5	0.452	0.084	0.0440	
5760 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
5760 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
5760 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.0444	
5760 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.9	0.306	0.022	0.6089	
5760 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.3	0.376	0.033	1.3675	
5760 minute summer	SW-TH-IC08	1.005	TANK	3.4	0.542	0.053	0.0517	
5760 minute summer	TANK	1.006	SW-TH-MH01	10.3	0.391	0.098	0.0398	
5760 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	167.6

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC06	2940	15.473	0.008	0.1	0.0027	0.0000	OK
5760 minute summer	SW-TH-IC07	2940	15.172	0.012	0.2	0.0084	0.0000	OK
5760 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC03	2580	15.368	0.008	0.1	0.0057	0.0000	OK
5760 minute summer	SW-TH-IC04	2940	15.224	0.014	0.3	0.0141	0.0000	OK
5760 minute summer	SW-TH-IC08	2880	15.020	0.015	0.5	0.0043	0.0000	OK
5760 minute summer	TANK	2940	14.999	0.014	0.5	1.2052	0.0000	OK
5760 minute summer	SW-TH-MH01	2940	15.003	0.058	0.6	0.0656	0.0000	OK
5760 minute summer	SW-R-MH02	2940	14.839	0.014	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0152	
5760 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.2	0.328	0.011	0.0015	
5760 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
5760 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0189	
5760 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.3	0.280	0.008	0.0374	
5760 minute summer	SW-TH-IC08	1.005	TANK	0.5	0.542	0.008	0.0014	
5760 minute summer	TANK	1.006	SW-TH-MH01	0.6	0.173	0.006	0.0045	
5760 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.5	0.457	0.007	0.0081	22.3

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Results for 1 year 5760 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC07	2220	15.168	0.008	0.1	0.0060	0.0000	OK
5760 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC03	2520	15.368	0.008	0.1	0.0057	0.0000	OK
5760 minute winter	SW-TH-IC04	2520	15.222	0.012	0.2	0.0116	0.0000	OK
5760 minute winter	SW-TH-IC08	2520	15.017	0.012	0.3	0.0034	0.0000	OK
5760 minute winter	TANK	2760	14.994	0.009	0.3	0.7968	0.0000	OK
5760 minute winter	SW-TH-MH01	2760	14.988	0.043	0.3	0.0482	0.0000	OK
5760 minute winter	SW-R-MH02	2760	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
5760 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
5760 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
5760 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
5760 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
5760 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
5760 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
5760 minute winter	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
5760 minute winter	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0029	
5760 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.406	0.005	0.0060	26.6

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC07	3060	15.168	0.008	0.1	0.0060	0.0000	OK
7200 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC03	3360	15.368	0.008	0.1	0.0057	0.0000	OK
7200 minute summer	SW-TH-IC04	3360	15.222	0.012	0.2	0.0116	0.0000	OK
7200 minute summer	SW-TH-IC08	3360	15.017	0.012	0.3	0.0034	0.0000	OK
7200 minute summer	TANK	3600	14.994	0.009	0.3	0.7968	0.0000	OK
7200 minute summer	SW-TH-MH01	3600	14.988	0.043	0.3	0.0482	0.0000	OK
7200 minute summer	SW-R-MH02	3600	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
7200 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
7200 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
7200 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
7200 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
7200 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
7200 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
7200 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
7200 minute summer	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
7200 minute summer	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0029	
7200 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.406	0.005	0.0060	21.6

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Results for 1 year 7200 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC07	2880	15.168	0.008	0.1	0.0060	0.0000	OK
7200 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC03	3360	15.368	0.008	0.1	0.0057	0.0000	OK
7200 minute winter	SW-TH-IC04	3360	15.222	0.012	0.2	0.0116	0.0000	OK
7200 minute winter	SW-TH-IC08	3360	15.017	0.012	0.3	0.0034	0.0000	OK
7200 minute winter	TANK	3600	14.994	0.009	0.3	0.7968	0.0000	OK
7200 minute winter	SW-TH-MH01	3600	14.988	0.043	0.3	0.0482	0.0000	OK
7200 minute winter	SW-R-MH02	3600	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
7200 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
7200 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
7200 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
7200 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
7200 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
7200 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
7200 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
7200 minute winter	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
7200 minute winter	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0029	
7200 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.406	0.005	0.0060	27.3

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC07	3780	15.168	0.008	0.1	0.0060	0.0000	OK
8640 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC03	4080	15.368	0.008	0.1	0.0057	0.0000	OK
8640 minute summer	SW-TH-IC04	4080	15.222	0.012	0.2	0.0116	0.0000	OK
8640 minute summer	SW-TH-IC08	4080	15.017	0.012	0.3	0.0034	0.0000	OK
8640 minute summer	TANK	4320	14.994	0.009	0.3	0.7968	0.0000	OK
8640 minute summer	SW-TH-MH01	4320	14.988	0.043	0.3	0.0482	0.0000	OK
8640 minute summer	SW-R-MH02	4320	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
8640 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
8640 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
8640 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
8640 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
8640 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
8640 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
8640 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
8640 minute summer	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
8640 minute summer	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0029	
8640 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.406	0.005	0.0060	22.3

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Results for 1 year 8640 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC07	3540	15.168	0.008	0.1	0.0060	0.0000	OK
8640 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC03	4380	15.368	0.008	0.1	0.0057	0.0000	OK
8640 minute winter	SW-TH-IC04	4380	15.222	0.012	0.2	0.0116	0.0000	OK
8640 minute winter	SW-TH-IC08	4380	15.017	0.012	0.3	0.0034	0.0000	OK
8640 minute winter	TANK	4380	14.994	0.009	0.3	0.7939	0.0000	OK
8640 minute winter	SW-TH-MH01	4380	14.987	0.042	0.3	0.0479	0.0000	OK
8640 minute winter	SW-R-MH02	4380	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
8640 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
8640 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
8640 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
8640 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
8640 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
8640 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
8640 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
8640 minute winter	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
8640 minute winter	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0028	
8640 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.405	0.005	0.0060	25.9

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC07	4440	15.168	0.008	0.1	0.0060	0.0000	OK
10080 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC03	4860	15.368	0.008	0.1	0.0057	0.0000	OK
10080 minute summer	SW-TH-IC04	4860	15.222	0.012	0.2	0.0116	0.0000	OK
10080 minute summer	SW-TH-IC08	4860	15.017	0.012	0.3	0.0034	0.0000	OK
10080 minute summer	TANK	5100	14.994	0.009	0.3	0.7968	0.0000	OK
10080 minute summer	SW-TH-MH01	5100	14.988	0.043	0.3	0.0482	0.0000	OK
10080 minute summer	SW-R-MH02	5100	14.836	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
10080 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
10080 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
10080 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
10080 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
10080 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
10080 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0157	
10080 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.2	0.256	0.005	0.0272	
10080 minute summer	SW-TH-IC08	1.005	TANK	0.3	0.494	0.005	0.0009	
10080 minute summer	TANK	1.006	SW-TH-MH01	0.3	0.120	0.003	0.0029	
10080 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.3	0.406	0.005	0.0060	23.0

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Results for 1 year 10080 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC06	60	15.465	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC07	4260	15.168	0.008	0.1	0.0060	0.0000	OK
10080 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC03	60	15.360	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC04	6060	15.219	0.009	0.1	0.0088	0.0000	OK
10080 minute winter	SW-TH-IC08	4200	15.015	0.010	0.2	0.0028	0.0000	OK
10080 minute winter	TANK	4620	14.993	0.008	0.2	0.6629	0.0000	OK
10080 minute winter	SW-TH-MH01	4560	14.979	0.034	0.2	0.0382	0.0000	OK
10080 minute winter	SW-R-MH02	4620	14.834	0.009	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.0	0.000	0.000	0.0058	
10080 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.1	0.267	0.006	0.0009	
10080 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.0	0.000	0.000	0.0063	
10080 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.1	0.236	0.003	0.0185	
10080 minute winter	SW-TH-IC08	1.005	TANK	0.2	0.494	0.003	0.0006	
10080 minute winter	TANK	1.006	SW-TH-MH01	0.2	0.111	0.002	0.0021	
10080 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.2	0.363	0.003	0.0045	25.9

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC06	2400	15.473	0.008	0.1	0.0027	0.0000	OK
5760 minute summer	SW-TH-IC07	2880	15.176	0.016	0.4	0.0118	0.0000	OK
5760 minute summer	SW-TH-RE01	2760	15.695	0.008	0.1	0.0047	0.0000	OK
5760 minute summer	SW-TH-IC01	2760	15.626	0.011	0.2	0.0064	0.0000	OK
5760 minute summer	SW-TH-IC02	2760	15.475	0.010	0.2	0.0034	0.0000	OK
5760 minute summer	SW-TH-IC03	2760	15.376	0.016	0.4	0.0108	0.0000	OK
5760 minute summer	SW-TH-IC04	2940	15.232	0.022	0.8	0.0221	0.0000	OK
5760 minute summer	SW-TH-IC08	3120	15.090	0.085	1.2	0.0242	0.0000	OK
5760 minute summer	TANK	3120	15.090	0.105	3.4	9.3057	0.0000	OK
5760 minute summer	SW-TH-MH01	3120	15.091	0.146	4.6	0.1646	0.0000	OK
5760 minute summer	SW-R-MH02	3180	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
5760 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0025	
5760 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
5760 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
5760 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
5760 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0412	
5760 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.8	0.376	0.020	0.2722	
5760 minute summer	SW-TH-IC08	1.005	TANK	2.5	0.521	0.039	0.0209	
5760 minute summer	TANK	1.006	SW-TH-MH01	4.6	0.384	0.044	0.0227	
5760 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.563	0.014	0.0128	74.7

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Results for 30 year 5760 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC06	2160	15.473	0.008	0.1	0.0027	0.0000	OK
5760 minute winter	SW-TH-IC07	2460	15.174	0.014	0.3	0.0102	0.0000	OK
5760 minute winter	SW-TH-RE01	2880	15.695	0.008	0.1	0.0047	0.0000	OK
5760 minute winter	SW-TH-IC01	2880	15.626	0.011	0.2	0.0064	0.0000	OK
5760 minute winter	SW-TH-IC02	2880	15.475	0.010	0.2	0.0034	0.0000	OK
5760 minute winter	SW-TH-IC03	2880	15.374	0.014	0.3	0.0094	0.0000	OK
5760 minute winter	SW-TH-IC04	2880	15.229	0.019	0.6	0.0193	0.0000	OK
5760 minute winter	SW-TH-IC08	3000	15.041	0.036	0.9	0.0102	0.0000	OK
5760 minute winter	TANK	3060	15.041	0.056	3.8	4.9261	0.0000	OK
5760 minute winter	SW-TH-MH01	2880	15.047	0.102	4.1	0.1155	0.0000	OK
5760 minute winter	SW-R-MH02	3000	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
5760 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
5760 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
5760 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
5760 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.247	0.004	0.0076	
5760 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.3	0.229	0.008	0.0337	
5760 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.6	0.362	0.015	0.0994	
5760 minute winter	SW-TH-IC08	1.005	TANK	2.0	0.521	0.032	0.0076	
5760 minute winter	TANK	1.006	SW-TH-MH01	4.1	0.416	0.039	0.0118	
5760 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.547	0.013	0.0119	87.3

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC06	3060	15.473	0.008	0.1	0.0027	0.0000	OK
7200 minute summer	SW-TH-IC07	3300	15.174	0.014	0.3	0.0102	0.0000	OK
7200 minute summer	SW-TH-RE01	3540	15.695	0.008	0.1	0.0047	0.0000	OK
7200 minute summer	SW-TH-IC01	3540	15.626	0.011	0.2	0.0064	0.0000	OK
7200 minute summer	SW-TH-IC02	3540	15.475	0.010	0.2	0.0034	0.0000	OK
7200 minute summer	SW-TH-IC03	3540	15.376	0.016	0.4	0.0108	0.0000	OK
7200 minute summer	SW-TH-IC04	3540	15.231	0.021	0.7	0.0208	0.0000	OK
7200 minute summer	SW-TH-IC08	3840	15.064	0.059	1.8	0.0166	0.0000	OK
7200 minute summer	TANK	3840	15.062	0.077	3.8	6.8302	0.0000	OK
7200 minute summer	SW-TH-MH01	3720	15.065	0.120	4.7	0.1354	0.0000	OK
7200 minute summer	SW-R-MH02	3840	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
7200 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
7200 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
7200 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
7200 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
7200 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0087	
7200 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0389	
7200 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.379	0.018	0.1647	
7200 minute summer	SW-TH-IC08	1.005	TANK	1.6	0.520	0.024	0.0132	
7200 minute summer	TANK	1.006	SW-TH-MH01	4.7	0.419	0.045	0.0167	
7200 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.555	0.013	0.0124	74.7

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Results for 30 year 7200 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC06	2880	15.473	0.008	0.1	0.0027	0.0000	OK
7200 minute winter	SW-TH-IC07	3300	15.174	0.014	0.3	0.0102	0.0000	OK
7200 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC01	3300	15.623	0.008	0.1	0.0047	0.0000	OK
7200 minute winter	SW-TH-IC02	3300	15.472	0.007	0.1	0.0024	0.0000	OK
7200 minute winter	SW-TH-IC03	3300	15.372	0.012	0.2	0.0078	0.0000	OK
7200 minute winter	SW-TH-IC04	3300	15.226	0.016	0.4	0.0160	0.0000	OK
7200 minute winter	SW-TH-IC08	3300	15.023	0.018	0.7	0.0052	0.0000	OK
7200 minute winter	TANK	4020	15.022	0.037	2.6	3.2798	0.0000	OK
7200 minute winter	SW-TH-MH01	3960	15.038	0.093	3.3	0.1052	0.0000	OK
7200 minute winter	SW-R-MH02	3900	14.842	0.017	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
7200 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
7200 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
7200 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0027	
7200 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.1	0.240	0.002	0.0092	
7200 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.1	0.181	0.002	0.0054	
7200 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.2	0.202	0.005	0.0255	
7200 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.4	0.315	0.010	0.0476	
7200 minute winter	SW-TH-IC08	1.005	TANK	0.7	0.520	0.011	0.0036	
7200 minute winter	TANK	1.006	SW-TH-MH01	3.3	0.412	0.032	0.0099	
7200 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.7	0.527	0.011	0.0112	88.7

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC06	3840	15.473	0.008	0.1	0.0027	0.0000	OK
8640 minute summer	SW-TH-IC07	4080	15.174	0.014	0.3	0.0102	0.0000	OK
8640 minute summer	SW-TH-RE01	4320	15.695	0.008	0.1	0.0047	0.0000	OK
8640 minute summer	SW-TH-IC01	4320	15.626	0.011	0.2	0.0064	0.0000	OK
8640 minute summer	SW-TH-IC02	4320	15.475	0.010	0.2	0.0034	0.0000	OK
8640 minute summer	SW-TH-IC03	4380	15.376	0.016	0.4	0.0108	0.0000	OK
8640 minute summer	SW-TH-IC04	4380	15.231	0.021	0.7	0.0208	0.0000	OK
8640 minute summer	SW-TH-IC08	4440	15.047	0.042	1.4	0.0119	0.0000	OK
8640 minute summer	TANK	4440	15.045	0.060	4.4	5.2850	0.0000	OK
8640 minute summer	SW-TH-MH01	4500	15.054	0.109	4.1	0.1238	0.0000	OK
8640 minute summer	SW-R-MH02	4440	14.843	0.018	0.8	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
8640 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
8640 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
8640 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
8640 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
8640 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.247	0.004	0.0087	
8640 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0389	
8640 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.362	0.018	0.1172	
8640 minute summer	SW-TH-IC08	1.005	TANK	2.1	0.542	0.032	0.0088	
8640 minute summer	TANK	1.006	SW-TH-MH01	4.1	0.413	0.039	0.0138	
8640 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.8	0.549	0.013	0.0121	73.2

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Results for 30 year 8640 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC06	3600	15.473	0.008	0.1	0.0027	0.0000	OK
8640 minute winter	SW-TH-IC07	4320	15.174	0.014	0.3	0.0102	0.0000	OK
8640 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC01	4320	15.623	0.008	0.1	0.0047	0.0000	OK
8640 minute winter	SW-TH-IC02	4320	15.472	0.007	0.1	0.0024	0.0000	OK
8640 minute winter	SW-TH-IC03	4320	15.372	0.012	0.2	0.0078	0.0000	OK
8640 minute winter	SW-TH-IC04	4320	15.226	0.016	0.4	0.0160	0.0000	OK
8640 minute winter	SW-TH-IC08	4320	15.023	0.018	0.7	0.0052	0.0000	OK
8640 minute winter	TANK	4440	15.016	0.031	1.9	2.7604	0.0000	OK
8640 minute winter	SW-TH-MH01	4440	15.031	0.086	2.1	0.0975	0.0000	OK
8640 minute winter	SW-R-MH02	4500	14.841	0.016	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
8640 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
8640 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
8640 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0027	
8640 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.1	0.240	0.002	0.0092	
8640 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.1	0.181	0.002	0.0054	
8640 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.2	0.202	0.005	0.0255	
8640 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.4	0.313	0.010	0.0476	
8640 minute winter	SW-TH-IC08	1.005	TANK	0.7	0.517	0.011	0.0030	
8640 minute winter	TANK	1.006	SW-TH-MH01	2.1	0.359	0.020	0.0087	
8640 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.7	0.518	0.011	0.0105	87.2

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC06	4560	15.473	0.008	0.1	0.0027	0.0000	OK
10080 minute summer	SW-TH-IC07	4860	15.174	0.014	0.3	0.0102	0.0000	OK
10080 minute summer	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC01	4860	15.623	0.008	0.1	0.0047	0.0000	OK
10080 minute summer	SW-TH-IC02	4860	15.472	0.007	0.1	0.0024	0.0000	OK
10080 minute summer	SW-TH-IC03	4860	15.372	0.012	0.2	0.0078	0.0000	OK
10080 minute summer	SW-TH-IC04	4860	15.226	0.016	0.4	0.0160	0.0000	OK
10080 minute summer	SW-TH-IC08	4860	15.023	0.018	0.7	0.0052	0.0000	OK
10080 minute summer	TANK	5340	15.022	0.037	2.5	3.2387	0.0000	OK
10080 minute summer	SW-TH-MH01	5280	15.033	0.088	3.3	0.0998	0.0000	OK
10080 minute summer	SW-R-MH02	5220	14.842	0.017	0.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
10080 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
10080 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
10080 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0027	
10080 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.1	0.240	0.002	0.0092	
10080 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.1	0.181	0.002	0.0054	
10080 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.2	0.202	0.005	0.0255	
10080 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.4	0.315	0.010	0.0477	
10080 minute summer	SW-TH-IC08	1.005	TANK	0.7	0.542	0.011	0.0036	
10080 minute summer	TANK	1.006	SW-TH-MH01	3.3	0.412	0.031	0.0092	
10080 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.7	0.528	0.011	0.0111	73.0

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Results for 30 year 10080 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC06	4440	15.473	0.008	0.1	0.0027	0.0000	OK
10080 minute winter	SW-TH-IC07	4440	15.172	0.012	0.2	0.0084	0.0000	OK
10080 minute winter	SW-TH-RE01	60	15.687	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC01	60	15.615	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC02	60	15.465	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC03	3600	15.368	0.008	0.1	0.0057	0.0000	OK
10080 minute winter	SW-TH-IC04	4560	15.224	0.014	0.3	0.0141	0.0000	OK
10080 minute winter	SW-TH-IC08	5580	15.020	0.015	0.5	0.0043	0.0000	OK
10080 minute winter	TANK	5340	15.002	0.017	1.1	1.5373	0.0000	OK
10080 minute winter	SW-TH-MH01	4920	15.011	0.066	1.2	0.0741	0.0000	OK
10080 minute winter	SW-R-MH02	5460	14.840	0.015	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0152	
10080 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.2	0.328	0.011	0.0015	
10080 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.0	0.000	0.000	0.0022	
10080 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.1	0.165	0.003	0.0189	
10080 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.3	0.280	0.008	0.0375	
10080 minute winter	SW-TH-IC08	1.005	TANK	0.5	0.517	0.008	0.0017	
10080 minute winter	TANK	1.006	SW-TH-MH01	1.2	0.277	0.012	0.0055	
10080 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.5	0.481	0.008	0.0090	85.4

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute summer	SW-TH-IC06	2700	15.476	0.011	0.2	0.0038	0.0000	OK
5760 minute summer	SW-TH-IC07	3540	15.422	0.262	0.7	0.1899	0.0000	SURCHARGED
5760 minute summer	SW-TH-RE01	2400	15.695	0.008	0.1	0.0047	0.0000	OK
5760 minute summer	SW-TH-IC01	2880	15.629	0.014	0.3	0.0077	0.0000	OK
5760 minute summer	SW-TH-IC02	2880	15.477	0.012	0.3	0.0040	0.0000	OK
5760 minute summer	SW-TH-IC03	3540	15.422	0.062	0.7	0.0421	0.0000	OK
5760 minute summer	SW-TH-IC04	3480	15.422	0.212	1.3	0.2124	0.0000	OK
5760 minute summer	SW-TH-IC08	3600	15.424	0.419	2.3	0.1187	0.0000	SURCHARGED
5760 minute summer	TANK	3540	15.423	0.438	11.3	38.6542	0.0000	SURCHARGED
5760 minute summer	SW-TH-MH01	3540	15.423	0.478	10.4	0.5406	0.0000	SURCHARGED
5760 minute summer	SW-R-MH02	4380	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.225	0.011	0.2781	
5760 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	1.5	0.452	0.084	0.0440	
5760 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0085	
5760 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.3	0.332	0.007	0.0200	
5760 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.3	0.251	0.005	0.0444	
5760 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.9	0.306	0.022	0.6089	
5760 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.3	0.376	0.033	1.3675	
5760 minute summer	SW-TH-IC08	1.005	TANK	3.4	0.542	0.053	0.0517	
5760 minute summer	TANK	1.006	SW-TH-MH01	10.3	0.391	0.098	0.0398	
5760 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	167.6

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Results for 100 year +40% CC 5760 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
5760 minute winter	SW-TH-IC06	2760	15.476	0.011	0.2	0.0038	0.0000	OK
5760 minute winter	SW-TH-IC07	3780	15.375	0.215	0.6	0.1557	0.0000	SURCHARGED
5760 minute winter	SW-TH-RE01	2160	15.695	0.008	0.1	0.0047	0.0000	OK
5760 minute winter	SW-TH-IC01	2160	15.626	0.011	0.2	0.0064	0.0000	OK
5760 minute winter	SW-TH-IC02	2160	15.475	0.010	0.2	0.0034	0.0000	OK
5760 minute winter	SW-TH-IC03	2820	15.378	0.018	0.5	0.0119	0.0000	OK
5760 minute winter	SW-TH-IC04	3720	15.375	0.165	1.0	0.1650	0.0000	OK
5760 minute winter	SW-TH-IC08	3720	15.375	0.370	1.9	0.1047	0.0000	SURCHARGED
5760 minute winter	TANK	3720	15.374	0.389	8.3	34.3556	0.0000	SURCHARGED
5760 minute winter	SW-TH-MH01	3840	15.377	0.432	3.6	0.4885	0.0000	SURCHARGED
5760 minute winter	SW-R-MH02	2880	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
5760 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
5760 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.225	0.011	0.2746	
5760 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.9	0.451	0.048	0.0440	
5760 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
5760 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
5760 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.246	0.004	0.0096	
5760 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.280	0.013	0.4108	
5760 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	1.2	0.362	0.029	1.2338	
5760 minute winter	SW-TH-IC08	1.005	TANK	1.9	0.542	0.029	0.0517	
5760 minute winter	TANK	1.006	SW-TH-MH01	-4.2	0.423	-0.040	0.0398	
5760 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	192.1

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
7200 minute summer	SW-TH-IC06	3480	15.476	0.011	0.2	0.0038	0.0000	OK
7200 minute summer	SW-TH-IC07	4200	15.300	0.140	0.7	0.1011	0.0000	OK
7200 minute summer	SW-TH-RE01	3120	15.695	0.008	0.1	0.0047	0.0000	OK
7200 minute summer	SW-TH-IC01	3120	15.626	0.011	0.2	0.0064	0.0000	OK
7200 minute summer	SW-TH-IC02	3120	15.475	0.010	0.2	0.0034	0.0000	OK
7200 minute summer	SW-TH-IC03	3540	15.378	0.018	0.5	0.0119	0.0000	OK
7200 minute summer	SW-TH-IC04	4200	15.300	0.090	1.0	0.0905	0.0000	OK
7200 minute summer	SW-TH-IC08	4200	15.301	0.296	1.6	0.0837	0.0000	SURCHARGED
7200 minute summer	TANK	4200	15.300	0.315	5.1	27.8002	0.0000	SURCHARGED
7200 minute summer	SW-TH-MH01	4200	15.301	0.355	4.7	0.4021	0.0000	SURCHARGED
7200 minute summer	SW-R-MH02	3660	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
7200 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.225	0.011	0.2663	
7200 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.6	0.452	0.034	0.0433	
7200 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
7200 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
7200 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0096	
7200 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.268	0.013	0.2055	
7200 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.0	0.376	0.025	0.9509	
7200 minute summer	SW-TH-IC08	1.005	TANK	2.7	0.521	0.042	0.0517	
7200 minute summer	TANK	1.006	SW-TH-MH01	4.7	0.379	0.045	0.0398	
7200 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	158.9

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Results for 100 year +40% CC 7200 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
7200 minute winter	SW-TH-IC06	2280	15.473	0.008	0.1	0.0027	0.0000	OK
7200 minute winter	SW-TH-IC07	4440	15.236	0.076	0.4	0.0548	0.0000	OK
7200 minute winter	SW-TH-RE01	2880	15.695	0.008	0.1	0.0047	0.0000	OK
7200 minute winter	SW-TH-IC01	2880	15.626	0.011	0.2	0.0064	0.0000	OK
7200 minute winter	SW-TH-IC02	2880	15.475	0.010	0.2	0.0034	0.0000	OK
7200 minute winter	SW-TH-IC03	2940	15.376	0.016	0.4	0.0108	0.0000	OK
7200 minute winter	SW-TH-IC04	4440	15.236	0.026	0.8	0.0258	0.0000	OK
7200 minute winter	SW-TH-IC08	4440	15.236	0.231	1.8	0.0653	0.0000	SURCHARGED
7200 minute winter	TANK	4440	15.236	0.251	3.5	22.1120	0.0000	SURCHARGED
7200 minute winter	SW-TH-MH01	4440	15.236	0.291	3.2	0.3286	0.0000	SURCHARGED
7200 minute winter	SW-R-MH02	3840	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
7200 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
7200 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.211	0.006	0.1416	
7200 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	1.0	0.402	0.054	0.0268	
7200 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
7200 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
7200 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.247	0.004	0.0087	
7200 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0458	
7200 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.8	0.363	0.020	0.7357	
7200 minute winter	SW-TH-IC08	1.005	TANK	2.7	0.521	0.041	0.0517	
7200 minute winter	TANK	1.006	SW-TH-MH01	3.2	0.391	0.030	0.0398	
7200 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	199.1

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
8640 minute summer	SW-TH-IC06	4320	15.476	0.011	0.2	0.0038	0.0000	OK
8640 minute summer	SW-TH-IC07	4920	15.234	0.074	0.6	0.0535	0.0000	OK
8640 minute summer	SW-TH-RE01	3840	15.695	0.008	0.1	0.0047	0.0000	OK
8640 minute summer	SW-TH-IC01	3840	15.626	0.011	0.2	0.0064	0.0000	OK
8640 minute summer	SW-TH-IC02	3840	15.475	0.010	0.2	0.0034	0.0000	OK
8640 minute summer	SW-TH-IC03	4380	15.378	0.018	0.5	0.0119	0.0000	OK
8640 minute summer	SW-TH-IC04	4380	15.235	0.025	1.0	0.0246	0.0000	OK
8640 minute summer	SW-TH-IC08	4920	15.234	0.229	1.7	0.0648	0.0000	SURCHARGED
8640 minute summer	TANK	4920	15.234	0.249	3.8	21.9546	0.0000	SURCHARGED
8640 minute summer	SW-TH-MH01	4920	15.234	0.289	4.7	0.3266	0.0000	SURCHARGED
8640 minute summer	SW-R-MH02	4440	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
8640 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.2	0.235	0.011	0.1375	
8640 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.9	0.451	0.051	0.0262	
8640 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
8640 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
8640 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.220	0.004	0.0096	
8640 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.5	0.268	0.013	0.0481	
8640 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	1.0	0.379	0.025	0.7314	
8640 minute summer	SW-TH-IC08	1.005	TANK	2.7	0.520	0.042	0.0517	
8640 minute summer	TANK	1.006	SW-TH-MH01	4.7	0.401	0.045	0.0398	
8640 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.572	0.015	0.0132	155.6

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Results for 100 year +40% CC 8640 minute winter. 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 winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
8640 minute winter	SW-TH-IC06	2880	15.473	0.008	0.1	0.0027	0.0000	OK
8640 minute winter	SW-TH-IC07	4200	15.176	0.016	0.4	0.0118	0.0000	OK
8640 minute winter	SW-TH-RE01	3660	15.695	0.008	0.1	0.0047	0.0000	OK
8640 minute winter	SW-TH-IC01	3660	15.626	0.011	0.2	0.0064	0.0000	OK
8640 minute winter	SW-TH-IC02	3660	15.475	0.010	0.2	0.0034	0.0000	OK
8640 minute winter	SW-TH-IC03	3720	15.376	0.016	0.4	0.0108	0.0000	OK
8640 minute winter	SW-TH-IC04	3720	15.231	0.021	0.7	0.0208	0.0000	OK
8640 minute winter	SW-TH-IC08	5100	15.161	0.156	1.5	0.0442	0.0000	OK
8640 minute winter	TANK	5100	15.161	0.176	4.2	15.5473	0.0000	OK
8640 minute winter	SW-TH-MH01	5100	15.162	0.217	3.6	0.2457	0.0000	OK
8640 minute winter	SW-R-MH02	5100	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
8640 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
8640 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0036	
8640 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
8640 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
8640 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.247	0.004	0.0087	
8640 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0389	
8640 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.362	0.018	0.5406	
8640 minute winter	SW-TH-IC08	1.005	TANK	2.1	0.517	0.033	0.0408	
8640 minute winter	TANK	1.006	SW-TH-MH01	3.6	0.325	0.034	0.0363	
8640 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	197.4

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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	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
10080 minute summer	SW-TH-IC06	4020	15.473	0.008	0.1	0.0027	0.0000	OK
10080 minute summer	SW-TH-IC07	4860	15.176	0.016	0.4	0.0118	0.0000	OK
10080 minute summer	SW-TH-RE01	4560	15.695	0.008	0.1	0.0047	0.0000	OK
10080 minute summer	SW-TH-IC01	4560	15.626	0.011	0.2	0.0064	0.0000	OK
10080 minute summer	SW-TH-IC02	4560	15.475	0.010	0.2	0.0034	0.0000	OK
10080 minute summer	SW-TH-IC03	4620	15.376	0.016	0.4	0.0108	0.0000	OK
10080 minute summer	SW-TH-IC04	4980	15.232	0.022	0.8	0.0221	0.0000	OK
10080 minute summer	SW-TH-IC08	5640	15.168	0.163	1.9	0.0460	0.0000	OK
10080 minute summer	TANK	5640	15.168	0.183	4.9	16.1109	0.0000	OK
10080 minute summer	SW-TH-MH01	5640	15.168	0.223	3.8	0.2517	0.0000	OK
10080 minute summer	SW-R-MH02	5640	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
10080 minute summer	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0213	
10080 minute summer	SW-TH-IC07	2.002	SW-TH-IC08	0.4	0.402	0.023	0.0045	
10080 minute summer	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
10080 minute summer	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
10080 minute summer	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.247	0.004	0.0087	
10080 minute summer	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0412	
10080 minute summer	SW-TH-IC04	1.004	SW-TH-IC08	0.8	0.363	0.020	0.5633	
10080 minute summer	SW-TH-IC08	1.005	TANK	2.5	0.520	0.039	0.0424	
10080 minute summer	TANK	1.006	SW-TH-MH01	3.8	0.420	0.036	0.0371	
10080 minute summer	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.571	0.015	0.0132	153.1

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

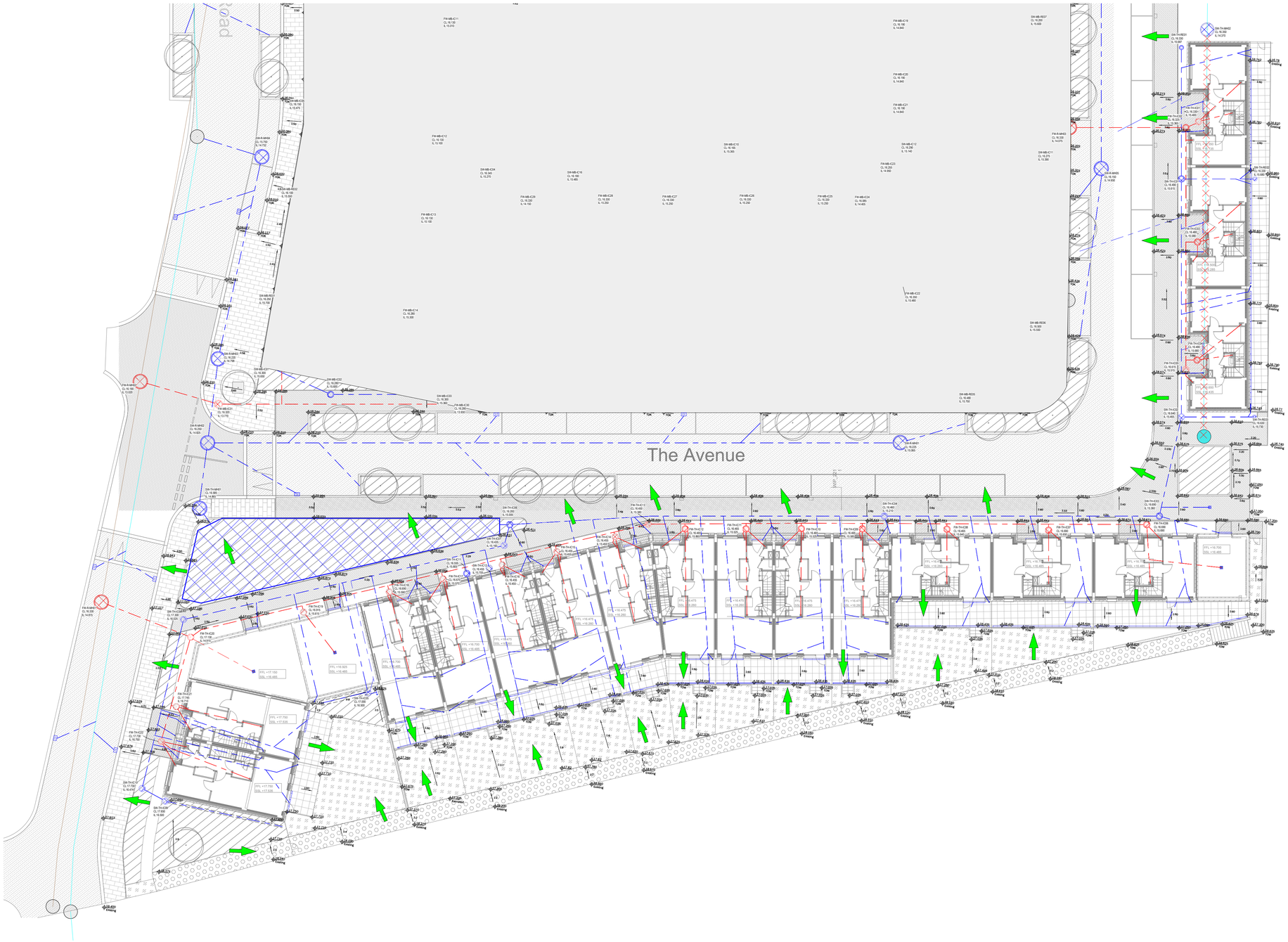
Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute winter	SW-TH-IC10	60	16.474	0.000	0.0	0.0000	0.0000	OK
10080 minute winter	SW-TH-IC06	3540	15.473	0.008	0.1	0.0027	0.0000	OK
10080 minute winter	SW-TH-IC07	3960	15.174	0.014	0.3	0.0102	0.0000	OK
10080 minute winter	SW-TH-RE01	4560	15.695	0.008	0.1	0.0047	0.0000	OK
10080 minute winter	SW-TH-IC01	4560	15.626	0.011	0.2	0.0064	0.0000	OK
10080 minute winter	SW-TH-IC02	4560	15.475	0.010	0.2	0.0034	0.0000	OK
10080 minute winter	SW-TH-IC03	4620	15.376	0.016	0.4	0.0108	0.0000	OK
10080 minute winter	SW-TH-IC04	4620	15.231	0.021	0.7	0.0208	0.0000	OK
10080 minute winter	SW-TH-IC08	5640	15.119	0.114	1.3	0.0323	0.0000	OK
10080 minute winter	TANK	5640	15.119	0.134	3.9	11.8349	0.0000	OK
10080 minute winter	SW-TH-MH01	5580	15.118	0.173	4.5	0.1957	0.0000	OK
10080 minute winter	SW-R-MH02	5640	14.844	0.019	0.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute winter	SW-TH-IC10	2.000	SW-TH-IC06	0.0	0.000	0.000	0.0000	
10080 minute winter	SW-TH-IC06	2.001	SW-TH-IC07	0.1	0.206	0.006	0.0184	
10080 minute winter	SW-TH-IC07	2.002	SW-TH-IC08	0.3	0.370	0.017	0.0020	
10080 minute winter	SW-TH-RE01	1.000	SW-TH-IC01	0.1	0.168	0.002	0.0071	
10080 minute winter	SW-TH-IC01	1.001	SW-TH-IC02	0.2	0.294	0.005	0.0150	
10080 minute winter	SW-TH-IC02	1.002	SW-TH-IC03	0.2	0.247	0.004	0.0087	
10080 minute winter	SW-TH-IC03	1.003	SW-TH-IC04	0.4	0.264	0.010	0.0389	
10080 minute winter	SW-TH-IC04	1.004	SW-TH-IC08	0.7	0.363	0.018	0.3801	
10080 minute winter	SW-TH-IC08	1.005	TANK	2.5	0.517	0.038	0.0292	
10080 minute winter	TANK	1.006	SW-TH-MH01	4.5	0.424	0.043	0.0286	
10080 minute winter	SW-TH-MH01	1.007	SW-R-MH02	0.9	0.568	0.014	0.0131	195.6

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Appendix H

MWP – Exceedance Plan



Exceedance Town House

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.
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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 Town House

CLIENT: Formation D&B Ltd

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mwalsh.co.uk

DRAWN:	CHECKED:	APPROVED:
VH	DO	RS
PROJECT NUMBER:	**DATE:**	**SCALE @ A1:**
26015	23/03/26	As indicated
STATUS DESCRIPTION:		**STATUS:**
FOR CONSTRUCTION		A
DRAWING NUMBER:		**REV:**
TAN-MWP-XX-00-DR-CV-2302		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

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

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

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

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

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

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

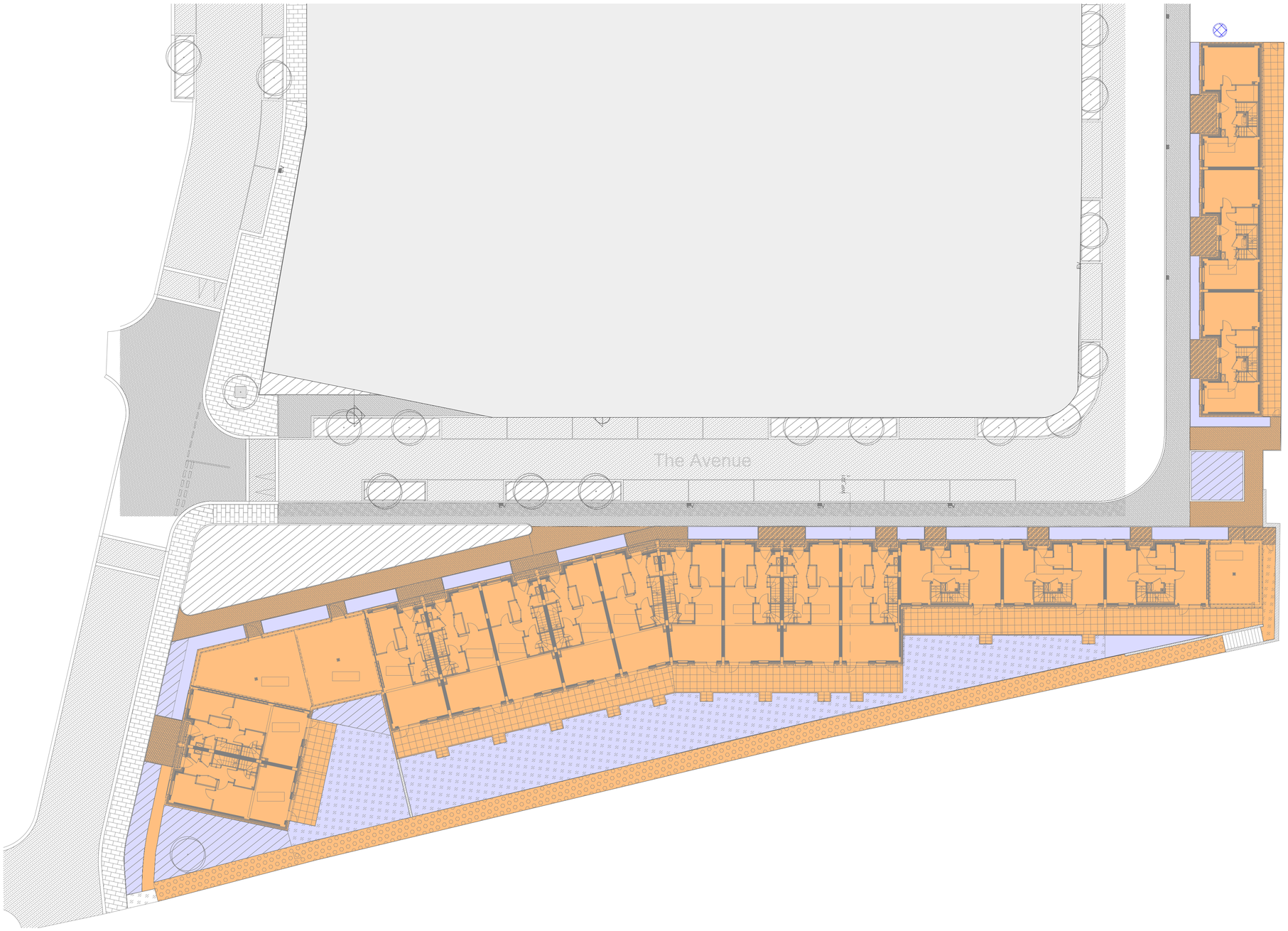
In addition:

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

Appendix K

Catchment Area Plan



Catchment Plan Town House

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.
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1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.
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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
- PERMEABLE SOFT LANDSCAPE AREA (1250m²) C02
- IMPERMEABLE HARDSTANDING AREA (1470m²) C02

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

PROJECT:
Tangmere

TITLE:
Catchment Plan Town House

CLIENT:
Formation D&B Ltd

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
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DRAWN:	CHECKED:	APPROVED:
VH	DO	RS
PROJECT NUMBER:	DATE:	SCALE @ A1:
26015	01/04/26	As indicated
STATUS DESCRIPTION: FOR CONSTRUCTION		STATUS: A
DRAWING NUMBER: TAN-MWP-XX-00-DR-CV-2306		REV: C02