

Annual Performance Report 2022/23



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### About our Annual Performance Report

This is our Annual Performance Report ("APR"). It's where you can find out more about how we've performed during our 2022/23 financial year (1 April 2022 to 31 March 2023) against the targets we have agreed with our regulator, Ofwat.

These targets are tied to our purpose to deliver life's essential service, so our customers, communities and the environment can thrive.

We're here to make sure our customers have clean, fresh drinking water every day, and that we're recycling waste without our customers having to worry.

We want to help you, our customers and stakeholders, to understand what our priorities are and what we're doing to turn Thames Water around.

We know that being truly open and transparent is important as we continue to build trust with our stakeholders, so we have changed the way we communicate to tell our story in a more straightforward way.

### Accessible information

To make our information accessible we've:

- Split our APR into sections for easier reference;
- Added section tabs on the left-hand side throughout this document;
- Provided an index of our individual performance commitments ("PCs") on page 20;
- Split our PCs into two sections, common and bespoke, and ordered them so they are consistent with the ordering that Ofwat uses<sup>1</sup>;
- Provided clear commentary on how we've performed and what we're doing to improve our performance;
- Introduced graphs so that it is easier to see trends and performance against targets over time;
- Provided a look up for all our regulatory statements and disclosure on page 70;
- Provided an index of our regulatory accounts in the regulatory accounts section of this document;
- Provided a glossary of terms on our website; and
- Explained our approach to open data on page 96.

Throughout this report we will provide extra information to help you understand this report.

<sup>&</sup>lt;sup>1</sup> Ofwat's Water company performance report 2021/22

### About us

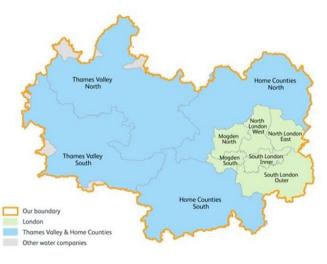
#### Our purpose

Our purpose is to deliver life's essential service, so our customers, communities and the environment can thrive.

#### Where we operate

Our operating area follows the River Thames and stretches from Gloucestershire to Essex, covering countryside, villages, towns and our capital city of London.

So that we are closer to our customers, we transformed to a regional model in April 2022 and have separate operational teams dedicated to London and Thames Valley & Home Counties.



### Board leadership, transparency and governance

We're committed to robust standards of corporate governance and follow the requirements of Ofwat's board leadership, transparency and governance principles.

Further details can be found in the 'Compliance with the Corporate Governance Code' section of our annual report.

#### Our values

We want everyone at Thames Water to live our values:

- Take care
- Passionate about everything we do
- Be respectful and value others
- Reach higher, be better
- Take ownership
- Be proud, be blue.

Over the past year, we've been bringing them to life through our living our values sessions, helping us to reconnect with our values and behaviours and understand what collective behaviours we need to exhibit to get to where we want to be.

### Key facts

- We serve 16 million customers across London and the Thames Valley
- We move more than 7 billion litres of water and wastewater through our water cycle, every single day
- Our ambassador volunteers provided support day and night, during the National Mourning for Her Majesty Queen Elizabeth II to make sure visitors to London and Windsor, including those in 'the queue', had access to drinking water through our new waterwalls
- We turn poo into power and selfgenerate over 20% of our own energy, with 100% renewable electricity from the grid filling the gap
- We've donated nearly £6m to our Trust Fund since 2009, making it one of the largest charitable funders of debt advice in our region.

### Our regulatory and statutory publications

We publish the following documents on our website.



Our action plan What we are doing to improve our performance

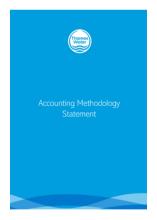


Annual report



Becoming more sustainable

#### Our sustainability report



Methodology statement Processes and allocation methods used in our financial APR tables



Reporting criteria Approach used to prepare non-financial information in our APR



Terms and acronyms used in our reporting

Glossary of terms Supporting our reader's understanding

We publish our APR data tables in in a MS excel format on our <u>website</u> where they can be accessed by all interested parties.



Statements from our CEOs and Board

### Our Co-Chief Executive Officers' statement





"As we take on the leadership of this iconic business, we're focused on stepping up the delivery of our turnaround."

Cathryn Ross and Alastair Cochran Interim Co-Chief Executive Officers, appointed June 2023 We want to start this statement by paying tribute to one of our supply chain colleagues who tragically lost his life last year, while carrying out a routine task. Safety is our top priority and 'take care' is a core Thames Water value. The incident is still being investigated to understand what happened and, more importantly, to prevent it from happening again. Our thoughts are with our colleague's family and friends at this difficult time.

#### Our turnaround

As we take on the leadership of this iconic business, we're focused on stepping up the delivery of our turnaround, to build on the strong foundations that have been put in place over the last two years.

Our refocussed turnaround plan is built on a robust financial position. We had £4.4 billion of liquidity at the end of the financial year end and our shareholders have continued to support the business through additional funding.

They committed £500 million of funding during the year, which was drawn in March 2023. Shareholders have now agreed to provide a further £750 million of equity funding, which will be subject to certain conditions, to drive Thames Water's turnaround over the remainder of the current AMP7 regulatory period and establish a solid foundation for Thames Water's long term growth.

In addition, our Shareholders acknowledge that the development and delivery of the new focused turnaround plan will require the provision of further equity support in AMP8 significantly in excess of the current commitment.

In addition, our shareholders acknowledge that our turnaround will continue into AMP8 and that the new refocused turnaround plan will likely require the provision of further equity investment significantly in excess of the current commitment to improve operational performance and financial resilience. Indicatively, the AMP8 equity investment is expected to be in the region of £2.5 billion, but the nature and amount of such medium-term support will depend on finalisation of the new focused turnaround plan and the regulatory framework that will apply to the AMP 8 period. We very much appreciate shareholders' substantial investment in the business, which demonstrates their commitment to delivering Thames' turnaround and building a better future for our customers, communities and the environment.

At the same time, we fully recognise our performance is not where it needs to be. The impact of the weather on our ageing assets was acutely felt in FY23, and we weren't able to deliver key improvements quickly enough.

During the year, it became clear we needed to accelerate the speed of performance improvements and so, in April, we began a review of the turnaround plan. As a result of that review, we've refocused the plan into a more targeted, prioritised, three year turnaround, that will drive faster improvements in key performance metrics. It will also be underpinned by greater financial discipline as we seek to secure maximum value from every pound we spend for our customers and the environment.

Over the last 12 months we have made good progress in embedding the foundations of a turnaround in performance. We've moved to a restructured regional operating model, brought all customerfacing telephone teams back to our region, and insourced the repair and maintenance of our water network.

All of the structural changes are bringing us closer to customers and will deliver improvements in our performance while creating good quality local jobs. We've also continued our record levels of investment with £3.1 billion invested in our assets since the launch of the turnaround just over two years ago, £1.8 billion of which has been over the last year alone.

In the coming year we will build on these foundations by prioritising a smaller number

of performance improvements. These will be backed by clear metrics, with clear accountabilities across our leadership team.

The health and safety of our colleagues and customers will always be our most important priority and we'll be focusing on other areas that matter most to customers, such as reducing pollutions to improve river health. We know we can't do everything at once and the new turnaround plan will focus on these critical areas. Clearly, prioritisation is key to ensure we can deliver improvements efficiently for our customers.

We are also managing deliverability constraints in a constrained supply chain that has been impacted by recent global events. This is requiring trade-offs to be made as we focus on delivering substantial and sustainable improvements as quickly as possible, safely and in the areas that matter most.

We've spent a lot of time over the last two years uniting around our purpose, values and behaviours. It's clear that Team Thames is full of passion to make improvements in what and how we deliver for customers and the environment, but we need to make it easier for them to do this across London, the Thames Valley and Home Counties.

To deliver the refocused turnaround plan, we're empowering teams to take more accountability to speed up improvements. We also need to break down the legacy, and unnecessary, barriers to success and encourage our senior leaders to take ownership of the decisions they're in the best place to make.

#### The scale of the challenge

While we are making positive steps, the scale of the challenge we face is significant and we need to ensure that we adequately reflect in our plans both the cost to deliver our services with an ageing asset base, and the investment required to improve our asset health over the long term . For years our performance has been severely affected by the health of our assets. On a day-to-day basis our ageing assets need more maintenance to provide our core services, we spend more to fix assets that fail, and when we are hit with extreme weather, which is happening more often, our services are more adversely affected and take longer to restore. All of this feeds into our performance, and into financial penalties which in turn reduce the funds available to reinvest in the network.

We're in the concluding stages of an internal investigation into the scale of what needs to be done to improve our resilience, manage and renew our assets over the long-term. The report will be finalised in the Autumn and will enable us to factor in the costs associated with renewing our assets over the coming decades into our PR24 business plan submission.

It's absolutely vital we understand what needs to be done and put a sustainable plan in place to manage and renew our assets, as we face into the challenges of climate change and population growth.

#### The need for reform

In recent years we have consistently advocated for systemic reform focused on three areas, relating to planning, regulation and investment in critical infrastructure. We absolutely align with this view and will continue to drive it forward.

First, we need to stop using drinking water to flush toilets or water gardens, which will require a completely different way of planning developments. Second, we need to look outside the five-year regulatory cycle to be able to make the right long-term decisions – we all know we'll need water for more than five years, but the current regulatory model trains people in the sector to focus on the short-term. And third, we need a new coordinated approach to speed up critical projects like the Thames Tideway Tunnel, which don't fit within the regulatory framework.

The Thames Tideway Tunnel will reduce spills into the Tidal Thames by an estimated 95% in the next couple of years, putting us way ahead in our journey to clean up rivers. But it was more than fifteen years in the making and was only possible through an innovative financial model, not seen before in the industry. The proposed reservoir at Abingdon could also be delivered in a similar way.

Our first priority is to make sure we deliver our turnaround to improve customer and environmental performance. However, the country's water and waste water resilience rests on a fundamentally different way of doing things; our assets are ageing, and the dual challenges of climate change and population growth are only going to intensify.

We recognise the critical role we, the Executive team and our leadership community, needs to play in working with our regulators, peers, investors, NGOs and Government to drive radical reform. In the last few years, under Sarah Bentley's leadership, we transformed our engagement with stakeholders, spending time listening and understanding and sharing ideas. We are committed to maintaining that transparent, honest and collaborative approach. A better water future is essential for everyone. It is not something that any water company can deliver alone.

#### A pivotal price review

This price review is pivotal for the sector's long-term future. As we head towards the submission of our business plan for PR24, the stark reality of the situation facing the industry is clear. We absolutely need to invest to manage and renew ageing infrastructure and increase our resilience to extreme challenges that will only accelerate. Being able to balance investment with deliverability and affordability is at the heart of our business plan for the next five years.

#### A challenging year for performance

With our ageing assets and extreme weather events being major contributing factors, our performance fell short of expectations during the year, in key metrics including leakage and pollutions. Our job is to deliver a good service, regardless of the weather. So the fact that 2022 was a year of climate extremes is no excuse for poor performance. Nevertheless, the drought in the Summer followed by the freeze-thaw in December put major stress on our network and the resilience of our operational teams. We'd been performing well in reducing leakage in the early part of 2022/23, however our performance was knocked off course by the extreme drought. It led to a 38% increase in mains bursts due to the excessively dry ground and increased pressure in pipes due to spikes in demand.

The pipes faced more stress in December when the persistent freezing weather, followed by a quick thaw, led to cracks in pipes. Customers also felt the devastating impact on pipes in their own homes too. As well as leakage, the weather extremes had a negative impact on our performance in supply interruptions, consumption and pollutions. On the flip side, the exceptionally dry weather helped us secure a significant 46% reduction in discharges of untreated sewage and improved performance in internal sewer flooding.

While we haven't met targets in some of our core metrics, we've continued to make good progress in the reduction of complaints with a 28% year-on-year reduction. Our capital delivery machine is also streets ahead of where it was. There's been a six-fold increase in the work the team has on contract in the last two years – a brilliant achievement while the supply chain still recovers from the impact of covid-19.

#### A step forward in transparency

We care deeply about the health of our rivers and cleaning up rivers is at the heart of our approach – we've been clear for years that all discharges into rivers are unacceptable, whether they're a result of a fault in our network or the design of our infrastructure.

The weather helped us secure a huge reduction in sewage spills last year, with the exceptionally dry weather in the summer, and we won't be complacent. Being transparent about what's happening is key to rebuilding trust and we're leading the way. We were the first in the industry to launch our live sewage discharges map in January 2023 and since then we've enhanced it with details of the investment we're making at many of our sites.

While it is clear that it is unacceptable, it is also clear that there is no quick fix to stopping sewage discharge. We need to fundamentally adapt and enhance the design of infrastructure that often more than a century old. We need to stop rainwater, and water from misconnections, getting into our vast network and overwhelming our sewage treatment works. We also need to work with property owners, developers and local authorities to ensure that we change our approach to drainage, so we don't store up further problems, including in relation to surface water flooding, elsewhere.

#### Supporting our customers with the cost-ofliving

We increased our social tariff support to £50 million during a difficult year for many of our customers, as well as continuing to provide other support through our customer assistance fund and independent trust fund. We've also pledged to help customers with almost a quarter of a billion pounds through our social tariffs over the next two years.

#### A year of unprecedented business change

At the same time as facing various external challenges, the last year saw us embedding some fundamental changes within our business. We're incredibly thankful to our colleagues across the business for all of their hard work and resilience not only in keeping the taps flowing and the toilets flushing, but also for their openness and enthusiasm in adapting to new ways of doing things.

Throughout the year, Team Thames demonstrated real commitment to delivering improvements for the customers and environment. The scale of internal change and external challenge has meant that it not been easy for the team, and we continue to focus on supporting our colleagues through this period. Sarah spent a lot of time during the year meeting colleagues at sites across our patch to listen to the challenges they face and support them in finding solutions.

As an Executive team, we'll continue that programme and remain committed to spending time with, listening to and supporting our frontline colleagues.

#### Thank you

We'd like to finish this statement with a thank you to Ian Marchant, our Chairman, who is stepping down after six years at Thames Water. Two of those years were spent as Interim Executive Chairman, during which he provided stability and direction for Team Thames. Ian will be warmly remembered across the business for his energy and enthusiasm, and the breadth of perspective he offered across such a wide range of issues. We'd also like to thank Sarah Bentley, until recently our CEO, who worked with such determination and passion to get this business back on track. After putting strong foundations in place, Sarah felt it was the right time to step away and allow a new CEO to take the reins as we enter the next phase of our turnaround journey. We are clear that we want to build on what Sarah achieved, including the way she transformed our engagement with colleagues and our relationships with stakeholders.

We wish them both the best in their next endeavours.

Thank you,

Cathryn Ross and Alastair Cochran Interim Co-Chief Executive Officers

### A statement from our Board



"It's clear there needs to be urgent reform of the sector, so it can deliver its regulatory, customer and environmental commitments, and the risks need to be at the top of the regulatory and political agenda."

lan Marchant Chairman

2022 was a real manifestation of the heightening risk of climate change and the vulnerability of Thames Water's ageing network. It's clear that the world of water will need to operate very differently over the next 30 years, adding complexity to the delivery of short- term targets while also creating the need to develop long-term plans for our changing world.

Thames Water has been through an intense period of change to lay the foundations of the turnaround, and, on behalf of the Board, I would like to thank Team Thames for their continued passion, determination and commitment to do their best for customers and the environment. Despite the challenges facing Thames, every single day the team supplies high quality drinking water to 10 million customers and treats the wastewater of 16 million across London and the Thames Valley. The scale of what the team does every day is something to be proud of.

As a Board, we're focused on supporting the Executive team in delivering strong foundations for the team to succeed and to deliver our purpose – to deliver life's essential service, so our customers, communities and the environment can thrive.

#### Strong, ongoing shareholder support

The Board has spent time considering our financial resilience and we're in a solid position. Regulatory gearing is down to 77.4%, compared to 81.3% five years ago, and, at 31st March 2023, we had £4.4 billion of cash and committed facilities available.

The challenge we face is that we need to fund significant investment over the next seven years to increase the resilience of our assets, to meet current and future environmental obligations and to improve the performance of the business for our customers and the environment.

Our shareholders have been very supportive of the Board and Executive team and have already demonstrated that support in two ways; foregoing any income on their investment for the sixth year in a row and, as agreed in June 2022, investing an additional £500 million.

Shareholders have now agreed to provide a further £750 million of funding by 2025, subject to satisfaction of certain conditions, to support the development and delivery of the new refocused turnaround plan, and have acknowledged that our turnaround will continue into AMP8 and that the new refocused turnaround plan will likely require the provision of further equity support investment significantly in excess of the current commitment to improve operational performance and financial resilience. Indicatively, the AMP8 (2025-2030) equity

investment is expected to be in the region of  $\pounds 2.5$  billion, but the nature and amount of such medium-term support will depend on finalisation of the new focused turnaround plan and the regulatory framework that will apply to the AMP 8 period.

The Executive team and the Board are continuing to engage in constructive discussions with shareholders and regulators to ensure the expected investment is forthcoming.

#### The ageing network

Performance during the year was affected by a number of large asset failures on Thames' ageing network, including a burst on a 100-year-old, 42-inch water main in Belsize Park. The declining health of Thames Water's ageing infrastructure is increasingly evident, with the impact of climate change and population growth adding more pressure on the already stretched network. With that in mind, we welcome the Executive team's leadership in getting a deeper understanding of the investment we need to make to increase the resilience of our network.

With the business assessing the investment required over the long-term to renew and maintain our assets, I, and other members of the Board worked with Engineering and Asset Director, Caroline Sheridan and her team to review asset management data and understand the critical areas of risk.

Despite improvements being made to the way we operate as part of the turnaround, asset failures have such a significant impact on our customers, our performance measures and the team's resilience that it can be difficult to highlight the progress that is being made behind the scenes. There are no quick fixes to the challenges the business faces. However, as a Board, we have confidence in the team to turn around this business and are fully engaged in supporting them in this essential work.

#### Climate risk

The sudden and severe drought during the summer created real problems for the network and, as a Board, we spent a lot of

time with teams across the breadth of Thames to understand the impact of the extreme weather and the mitigation measures in place. Despite the severity of the drought and the impact on our water operations, Team Thames continued to make sure customers across the region had access to the water they needed for life's essentials. During the year, we were provided updates by the newly formed Climate Change Working Group, which reports to the Health Safety and Environment Committee and is led by Caroline Sheridan. The group was set up to increase the business' oversight of climate risk and opportunity, as well as reporting requirements, including alignment with the Taskforce for Climate Related Financial Disclosures. You can find the TCFD report in our Annual Report. Given it has continued to be a year of significant external challenge, the Board's Audit, Risk and Reporting Committee has spent a lot of time discussing the principal risks. Each principal risk has now been given a Board sponsor, as well as the Executive lead, to increase focus and governance of risk management and support the business in mitigating the biggest risks to the delivery of life's essential service.

#### Long-term planning

Ian Pearson and I have been members of the Water Resources Management Plan subcommittee over the past year. We've spent time with the teams working on the long-term plan for water resources and have also provided guidance on the Drainage and Wastewater Management Plan, as the business prepares for the heightening pressures.

#### Board engagement

Making sure team Thames has the resilience to keep delivering the essential services, at the same time as adapting to a changing Thames Water, is a key focus for the Board and Executive Team. To maintain a good understanding of the challenges facing the front line, Ian Pearson, our Workforce Engagement Lead continued to run an extensive programme of Board engagement during the year. He led 19 site visits, as well as a range of virtual sessions, with other members of the Board also joining him at a number of sessions.

In June 2022, I, with members of the Board, visited the River Chess, to see the smarter water catchment plan in action. One of three plans for this regulatory period, the River Chess Smarter Water Catchment Plan brings together partners in the river community to take joint action to improve river water quality, focused on the strength of partnership and nature-based solutions. It was great to meet some of the stakeholders who are working together with teams at Thames Water to make a real difference to the beautiful chalk stream.

#### Changes to the Board

We've appointed John Holland-Kaye, Chief Executive of Heathrow, to the Board as a Non-Executive Director to represent USS. David Waboso, an Independent Non-Executive Director, stood down.

Despite the Board changes, the Independent Non-Executive Directors remain the single largest group on the Board, in alignment with strong governance. Full details of the Board can be found in the Annual Report.

On 27 June 2023, Sarah Bentley stepped down as CEO and from the Board. The process has begun to recruit her replacement and, in the meantime, Alastair Cochran, our Chief Financial Officer, and Cathryn Ross, our Strategy and External Affairs Director, are interim co-CEOs

#### Stepping down from the Board

After six years as Chairman of Thames Water, including two years as Interim Executive Chairman, I've decided to step down this Summer. On 29 June 2023, it was announced that Sir Adrian Montague would become Chair of Thames Water Utilities Limited from 10 July 2023. The challenges facing the water industry, and Thames Water in particular, are increasing all the time, whether it's the current and future implications of climate change, the impact of the health of our ageing assets or the increasing focus on us. The task of transforming this business will be extensive and challenging and will take longer than any of us would want. However, we have built strong foundations to deliver a turnaround and put a good team in place to do this.

I wish everyone involved with Thames Water all the best as the turnaround journey continues.

lan Marchant Chairman



# Our 2022/23 Performance

# Our performance in 2022/23 was affected by climatic events

### The impact of climatic events on our performance is a common theme running through our commentary.

This is despite a backdrop of significantly increased recent investment and being two years into a turnaround plan designed to produce sustainable improvements.

This year the weather adversely affected on our performance against the following PCs:

- Abstraction incentive mechanism
- C-MeX
- Internal sewer flooding
- Leakage
- Mains repairs
- Per capita consumption
- Pollution incidents
- Responding to major trunk mains bursts
- Security of supply index
- Sewage pumping station availability
- Water quality events
- Water supply interruptions.

#### Our climate strategy

At Thames Water, adapting to and mitigating our contribution to climate change have been important parts of how we do business for a long time.

We're continuing to improve the way climate risk becomes an inherent part of our strategy and business planning.

We have made significant assessments to understand climate related risks and opportunities, and their impact on our future plans.

# How weather impacted our performance this year

The period 2022/23 was dramatic for the UK's climate. In summary:

#### Summer drought (declared August 2022)

Last summer was the joint hottest on record (with 2018) and the increased demand for water by our customers meant that we had to pump more water through our pipes, at higher rates, to meet demand. This put additional pressure on our ageing network and caused an increase in the number of leaks.

The drought also created unprecedented 'soil moisture deficit', with ground drying out. As much of the ground in our region is clay, which hardens when it dries out, our pipes had less flexibility to move. Driving vehicles on this solid ground made the problem worse.

This caused a significant increase in visible leaks that needed fixing in both our pipes and customers' pipes.

The drought also impacted on our pollution incidents as the lower flows in rivers resulted in discharges having a greater impact than they would have otherwise.

#### August storms

In August, the Met Office issued yellow warnings for storms, travel disruption, power cuts, lightning, heavy rain and flash flooding.

Given the lack of green space and densely populated areas in London, in some areas, the rain overwhelmed our surface water and sewage combined sewers, resulting in 600% more hydraulic floods than our target for the period.

Following this heavy rainfall, the incoming flow was greater than our sewage treatment works ("STW") could treat, therefore the excess was screened and passed to storm tanks for storage (with a view that it would be returned to the head of the works for treatment when the STW had capacity). However, our storm tanks became full before the rain stopped, meaning that excess flow had to be discharged into rivers (as overflowing sewage heavily diluted with rainwater).

Due to the size of our sewer network, this is not a straightforward problem to deal with. As an example, Witney STW, which serves a population of about 45,000 people, receives sewage from a network of more than 200 miles of sewers. We're working on detailed plans for reducing these inflows and will be making a case for the necessary investment in our next business plan.

Improving water quality in the River Thames catchment April 2023



We published our River Health Report in April 2023. If you click on the image, you will find more details on the steps we are taking to improve river quality.

#### Wet autumn

The autumn of 2022 was wetter than average. November was a particularly wet month, with some areas in our region having double the average rainfall.

The re-wetting of the ground caused further movement and more leaks, as well as increasing hydraulic floods by 140% over target.

#### Winter freeze/thaw

In December, we experienced one of the most significant cold spells since 2010.

The prolonged cold spell before Christmas ended with a rapid thaw which caused a surge of leaks as the pipes were affected by the sudden change in temperature (a variance of 17°C in one day between 17 and 18 December 2022).

As a result, our mains repair volume in December was 46% greater than at any equivalent time in the last ten years. However, having learned lessons from the 'Beast from the East' weather event, our customers experienced less than 10% of the supply interruptions seen in 2018.

#### Early part of 2023

This was followed by a period of intense rain in January, which saw some areas having roughly half their average rainfall for the month in the first two weeks, causing a significant increase in pollution incidents due to power outages.

We operate in one of the most densely populated parts of the UK and our infrastructure sometimes struggles to cope with the volume of sewage that is put into it, particularly during periods of heavy rainfall.

Our performance was further impacted the following month when England had its eighth driest February since earliest records began in 1836, and its driest since 1993.

#### How this compared with 2021/22

In 2021/22 we were affected by different, but equally significant, climatic events. The

speed and severity of the rainfall which fell during the two storms London in July 2021 was the main cause of sewer flooding. These events overwhelmed the current design capacity of the below ground systems.

We estimate that these events alone added an additional £20m to our 2021/22 Outcome Delivery Incentive ("ODI") position as declared in our Annual Performance Report last year.

It is pertinent that the Environment Agency ("EA") has chosen to exclude the impact of Storm Eunice (in February 2022) from our pollution's incidents performance metric for this reporting period.

### Conditional allowances

For AMP7, Ofwat conditionally permitted us a £300m allowance to enhance the performance of our London water network.

The allowance was provisional on us delivering an agreed scope of work through a gated process, and on a substantial contribution from shareholders to the cost of the improvement works.

In November 2022, Ofwat confirmed we'd met the requirements and we committed a significant shareholder investment of £400m that will benefit customers across the region through investment in water supply.

This funding boost will allow us to replace 112km of our leakiest water mains pipes across London.

To reflect how this will impact on our performance, our performance targets for mains repairs and leakage for the last two years of the AMP have been updated as follows:

| Year    |     | Mains<br>repairs <sup>2</sup> | Leakage <sup>3</sup> |
|---------|-----|-------------------------------|----------------------|
| 23/24 - | Was | 254.8                         | 17.4%                |
| 20/24 = | Now | 254.7                         | 17.4%                |
| 24/25 - | Was | 251.1                         | 20.4%                |
| Z4/ZJ - | Now | 249.3                         | 20.5%                |

With Ofwat's approval, we've also agreed to three new performance commitments for the 2020-2025 price control period.

These are:

- Trunk mains renewal (in period penalty 2023/24 onwards)
- Future London strategy (in period reputational 2024/25 only)
- London data validation work streams (in period reputational 2023/24 onwards).

We are also progressing our Water Supply System Resilience Programme ("WSSRP) conditional allowance which we intend to submit to Ofwat in July 2023. If approved, the WSSRP conditional allowance will deliver major asset resilience improvements to some of our key assets at Coppermills and Hampton Water Treatment Works.

### Thames Tideway Tunnel

We have six Thames Tideway Tunnel ("TTT") performance commitments. The tunnel is being constructed by Bazalgette Tunnel Limited to tackle the problem of overflows from the capital's Victorian sewers for at least the next 100 years.

We're responsible for the connection works to our existing network.

<sup>2</sup> Per 1,000 kms of mains

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<sup>3</sup> Three year average reduction
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# About our performance targets

#### What we're measured against

We measure our performance against a set of targets we agreed with Ofwat as part of our Asset Management Plan ("AMP"). The water industry works in five-year regulatory periods, otherwise known as an AMP period. AMP7 covers the period from 1 April 2020 to 31 March 2025.

For AMP7, we have 55 (2021/22: 52) PCs:

- 15 Ofwat defined "common" PCs where our performance is benchmarked against other companies
- 37 "bespoke" PCs that we designed to help us focus on our key customer priorities
- 3 "bespoke" PCs relating to our conditional allowances

#### What happens if we fail to meet our targets

If we perform better than the targets that we have been set, we can earn a financial reward. When we fail to meet a target, we incur a financial penalty.

Both penalties and rewards will adjust how much customer revenue we can collect for our water, wastewater and retail services.

Some PCs can incur both rewards and penalties while others are reward or penalty only.

These are also known as outcome delivery incentives ("ODI") and the amount we pay or receive depends on how far we've missed or exceeded the target for an individual financial performance commitment, and specific calculation rules set by Ofwat.

Our ODIs are calculated in a number of different ways. Some calculations reflect how we performed within the regulatory year, some our performance in a calendar year, while others are based on our performance across the AMP.

Not all our PCs have a financial reward or penalty attached to them. Some are reputational only to recognise the impact our performance can have on the reputation of the company.

We know that our operational performance is unacceptable, and we are committed to improving it. We published our <u>action plan</u> to improve performance on our website in April 2023.

On the following pages, we explain how we've performed against each PC target and, where a target has not been met, what we're doing to improve our performance.

### How we performed against our targets in 2022/23

| Performance                 |       | Met   |       | Not met |       | Total<br>target | No<br>target | Total<br>number |       |
|-----------------------------|-------|-------|-------|---------|-------|-----------------|--------------|-----------------|-------|
| РС Туре                     | 20/21 | 21/22 | 22/23 | 20/21   | 21/22 | 22/23           | 22/23        | 22/23           | 22/23 |
| Common                      | 5     | 7     | 4     | 8       | 6     | 9               | 13           | 2 <sup>4</sup>  | 15    |
| Bespoke                     | 21    | 22    | 22    | 13      | 12    | 12              | 34           | 3               | 37    |
| Additional PCs <sup>5</sup> | -     | -     | -     | -       | -     | -               | -            | 3               | 3     |
| Total                       | 26    | 29    | 26    | 21      | 18    | 21              | 47           | 8               | 55    |

| Rewards/(Penalties) (in £m) <sup>6</sup> | 20/21   | 21/22   | 22/23   |
|--|---------|---------|---------|
| Water quality compliance                 | -0.898  | -1.262  | -16.043 |
| Water quality events                     | -       | -       | -0.142  |
| Leakage                                  | 2.671   | -       | -8.908  |
| Water supply interruptions               | -10.120 | -6.956  | -20.022 |
| Mains repairs                            | -1.058  | 8.714   | -16.674 |
| Pollution incidents                      | -2.739  | -1.433  | -9.345  |
| Sewer flooding <sup>7</sup>              | -10.560 | -28.831 | -5.531  |
| Unregistered household properties        | -0.211  | -0.211  | -0.211  |
| Empty household properties               | -0.308  | -       | 0.231   |
| Clearance of blockages                   | -5.223  | -6.410  | -8.811  |
| Renewable energy produced                | -1.370  | 0.725   | 2.096   |
| Treatment works compliance               | -       | -0.123  | -       |
| Environmental measures delivered         | -       | -0.667  | -       |
| Security of Supply (SoSI)                | _       | -       | -0.224  |
| Sewer collapses                          | -       | -       | 0.340   |
| Reducing risk of lead                    | 0.015   | 0.429   | 0.689   |
| Empty business properties                | 0.549   | 0.497   | 0.278   |
| Total net penalties                      | -29.252 | -35.528 | -82.277 |

While not ODIs, in 2022/23 we also received penalties of £13.121m for C-MeX and £5.680m D-MeX. (2021/22: total £18m)

<sup>&</sup>lt;sup>4</sup> C-MeX and D-MeX measures the relative performance of companies. They are common PCs.

<sup>&</sup>lt;sup>5</sup> For 2022/23 onwards relating to our conditional allowances).

<sup>&</sup>lt;sup>6</sup> All rewards and penalties are stated at 2017/18 prices.

<sup>&</sup>lt;sup>7</sup> Our 2021/22 penalty Includes the impact of the London flooding of July 2021, a 1 in 200-year weather event. If this was excluded our penalty would be c.£20m less.

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# Common performance commitments

### C-MeX ARO1

#### Penalty: £13.121m

Customer experience and satisfaction out of 100 through a customer survey <sup>8</sup>

Actual score (out of 100) Position in industry

#### How we've done

Our ability to drive customer satisfaction this year has been affected by:

- General concerns about water companies environmental performance
- Our planned phasing out of our outsourcing partners.

We expect to see some further deterioration in our C-MeX score as we're now publishing <u>live storm discharge and event</u> <u>duration data</u> on our website.

As the only water company publishing this information, we have been recognised as industry leading by CCW and praised by external stakeholder groups as a step change in transparency over this topic.

# How climatic conditions impacted our performance

Unprecedented weather extremes in the year have resulted in a range of operational issues (e.g. increased bursts and pollution incidents) that have adversely impacted on customer perception.

We have also seen negative media sentiment regarding the temporary usage ban ("hose pipe ban"), in position from August to November 2023.



# What we're doing to improve our performance

In 2024, we will migrate to new outsource partners for digital customer contact, back-office services, document handling and post services.

We will focus on improving basic customer service in operations, driving improvements across no water, visible leak, blockage, and sewer flooding. Our PR24 planning has customer focused objectives, including (but not limited to) an increase in first time issue resolution, improvements to case management of customers more proactive communication, and a drive to enable customer excellence through an engaged workforce.

We confirm that we comply with the C-MeX reporting requirements with regard to the provision of at least five channels (including three online) for customers to contact us.

Reducing complaints isn't a PC but, as it contributes to our C-MeX score, we provide more information in the "About customer complaints" section later in this document.

<sup>&</sup>lt;sup>8</sup> The 17 largest water companies in the industry take part in two equally weighted monthly customer surveys (customer experience and customer satisfaction). The results are used to calculate rewards or penalties based on the relative performance of the company.

### Priority services ARO6

#### Reputational only

% of customers on our priority service register9



#### How we've done

We've met our target this year.

We continue to grow our Priority Service Register ("PSR") through targeted email and social media campaigns, our work with third sector partners, data sharing partnerships, our proactive over 80s campaign and enhanced identification processes in our contact centres.

We've also introduced a digital tool to improve the profiling of our check in process, so that we make sure that attempted contacts are made while avoiding peak demand periods such as annual billing.

# What we're doing to improve our performance

We'll continue our efforts to undertake data sharing with partners and increase our reach.

We'll look to assess opportunities to increase our actual contact response rate above the required minimum target and revise our policy for the appropriate action for customers where no contact has been received within 6 years. This will support us in holding accurate data and providing customers with the right level of support. Individuals registered by service type:

| Service <sup>10</sup>                         | Number  |
|---|---------|
| Communication                                 | 39,830  |
| Support with mobility and access restrictions | 308,748 |
| Support with supply interruption              | 344,534 |
| Support with security                         | 10,688  |
| Support with other needs                      | 47,500  |
| Total individuals registered <sup>11</sup>    | 365,774 |

#### Register movements in year:

|             | Individuals | Households |
|-------------|-------------|------------|
| At Mar 2022 | 291,135     | 284,379    |
| Additions   | 105,430     | 104,953    |
| Removals    | (30,791)    | (30,433)   |
| At Mar 2023 | 365,774     | 358,899    |

<sup>&</sup>lt;sup>9</sup> This is the % of all households in our region that are on the PSR, known as 'Reach', and our how often we contact them.

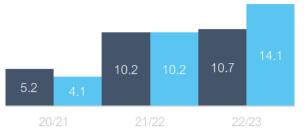
<sup>&</sup>lt;sup>10</sup> The restriction of water usage in the summer 2022 drought resulted in a review of certain PSR needs codes and drove an additional 10,000 PSR registrations.

<sup>&</sup>lt;sup>11</sup> An individual may be registered for more than one service.

### Leakage BW04

Penalty: £8.908m

% reduction in leakage using a 3-year average from the 2019/20 baseline  $^{\rm 12}$ 



#### How we've done

We've missed our target this year.

This is in spite of us meeting our leakage targets <sup>13</sup> for both 2020/21 and 2021/22.

Our three-year average actual for 2022/23 was 602.2 MI/d representing a 10.7% reduction against the AR20 baseline of 674.4 MI/d, as restated in AR22 reporting.

Our annual average leakage was 619.7 Ml/d against the target of 550.9 Ml/d.

We remain committed to our end of AMP 20.5%<sup>14</sup> reduction target but know that we have a lot to do to improve our performance.

In response to the summer drought, we immediately enacted a substantial and ambitious Leakage Recovery Plan ("LRP") With the initial focus to develop an end-toend plan to reduce and repair the leakage outbreak, we:

- Enhanced and improved upon our Director-led, daily, weekly, bi-weekly cadence of meetings with executive sponsors and independent reviewers
- The Thames Water Board approved funding of £65m, above our initial IBP to support the delivery of the LRP

- Increased repair and maintenance team capacity to 240 teams (480 people), supported by 100 additional enabling, logistics and support resources
- Took learning from the Beast from the East to support our customers in how they can identify, report and repair leaks on their pipes
- Extended our working patterns and adjusted elements within our policies, such as our Customer Side Leakage ("CSL") self-fix parameters, to find and fix leaks more quickly
- Built a plan to manage the potential impact of a more severe winter
- Introduced an experienced Leakage Recovery Programme Manager in November 2022 to support the end-toend drive on performance
- Adjusted our ways of working across our end-to-end find and fix business (leakage detection, planning and scheduling, and repair & maintenance) to create local ownership, fostering collaboration and control.

<sup>&</sup>lt;sup>12</sup> As part of our LRIIP, we continue to look for data quality and reporting methodology improvements. It is likely that we will recalculate both our baseline and leakage outturn next year as we seek to provide the most accurate and complete view of our leakage performance.

<sup>&</sup>lt;sup>13</sup> All leakage numbers are quoted post maximum likelihood estimation (MLE)

<sup>&</sup>lt;sup>14</sup> Increased from 20.4% as part of Ofwat's approval of our PR19 conditional allowance to enhance the performance of our London water network in February 2023.

### In 2022/23, we fixed 66,896 leaks (compared with 61,671 in 2021/22). This equates to one leak being fixed almost every 7 mins 45 seconds

The higher leakage levels this year are despite having significantly increased output of detection and repair of leaks.

Compared to 2021/22, we repaired 9% more leaks and repairs on our burst mains increased by 54%.

We prioritised our work based on the leaks that matter the most to our customers. This resulted in repairing 36% more visible leaks, which meant we saved more water as these leaks tend to be bigger.

In April 2023, a new Head of Leakage joined the business to oversee all elements of leakage reduction as well as our longterm reduction strategy.

# How climatic conditions impacted our performance

At the beginning of July we were broadly tracking in line with our Year 3 trajectory. However, the hot summer, with record high daily temperatures and prolonged dry weather, meant we had to run many of our water supply sites and pumps at full capacity to accommodate the large increases in customer demand.

The prolonged dry weather caused the ground to move as it dried out, which placed stresses on our buried pipes, leading to an increase in breaks and leakage.

During December, our leakage performance was further impacted by the substantial freeze-thaw event when minimum temperatures moved rapidly from a prolonged period of below freezing to 10.9 degrees in air temperature.

# What we're doing to improve our performance

We've set ambitious targets to recover our performance, including more leakagefocused repair teams on the ground and the installation of more smart meters to improve our understanding of consumption.

Our recently launched Leakage Transformation Programme ("LTP") sets out to improve our ability to tackle leakage and bring our performance back on track.

The programme has been structured under three key themes:

- Fix the right leaks, faster new tools to make better use of data to allow us to prioritise leaks and reduce repair times. We'll improve our ways of working to boost local ownership; and implement systems and processes to help detect more leaks through educational and awareness campaigns
- Understand leakage and consumption install more meters in large buildings, such as blocks of flats to improve our understanding of consumption across different property types, and we'll install smart meters in areas where there is a high demand for water
- Build sustainable foundations changing our ways of working to deliver sustained leakage management and to set us up for long term success. A new leakage operating model will result in coordinated decision-making, improved awareness across our network, and will focus on delivering improvements in the most effective and efficient way possible.

# Learn more about our leakage commitment <u>here</u>.

### Per Capita Consumption

DVVUJ

Penalty: n/a

Three year average % reduction in the average water usage of household customers

#### How we've done

We've missed our target this year.

This is a PC where our performance is assessed at the end of AMP.

Our three-year rolling average<sup>15</sup> Per Capita Consumption ("PCC") performance for 2022/23 is 146.0 Ml/d. Whilst we have not met the target, we have seen a slight reduction in our consumption levels.

Our in-year actual PCC is now much closer to the WRMP forecast than previously.

We believe that some of the reduction in usage is due to the cost of living crisis, as people reduce their hot water consumption to reduce energy bills.

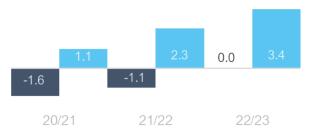
We also implemented a Temporary Use Ban ("TUB") in August 2022 and media coverage of the drought encouraged a further reduction in customer usage.

We continue to experience post-COVID hybrid working changes in the balance of household versus business water use.

Whilst we increase smart meter penetration and increase our targeted water efficiency engagement, most factors impacting consumption are external and outside of water company control or direct influence.

# How climatic conditions impacted our performance

We experienced unprecedented peaks in water demand across the summer.



# What we're doing to improve our performance

We'll continue to roll out our smart metering programme, which will positively influence customer behaviours and reduce consumption.

The smart meter data we collect will be analysed to proactively engage with households and businesses to drive water efficiencies, reducing both their bills and resource consumption.

#### Our water efficiency campaigns

We've introduced a sector-leading environmental incentive for developers, offering financial incentives to increase the water efficient performance of fittings and appliances in new homes. It also enables greater take-up of water reuse technologies (rainwater harvesting and greywater recycling) and offers a route to achieving water neutrality for any new residential development in our supply area.

Before and during the summer, we will increase our water saving messages across our channels (using emails and text messaging) to help customers know how to save water.

We're implementing an 'always-on' customer campaign across all media channels to highlight our water resource status and water efficiency benefits.

We'll also develop regular and proactive direct customer engagement through an enhanced digital platform.

### Water supply interruptions

BWO

Penalty: £20.022m

Length of time our customers don't have water<sup>16</sup> (in mm:ss)

#### How we've done

We've missed our target this year.

Our 2022/23 performance has been impacted by five significant events, in order of significance:

- 05:49 Oxford Event (October 22)
- 02:06 Belsize Road, NW6 (December 22)
- 01:44 Netley Mill WTW (August 22)
- 00:54 Ladymead WTW (November 22)
- 00:44 New Mill Lane, OX29 (July 22).

Excluding these events, our overall outturn is much closer to our target at 08:38.

# How climatic conditions impacted our performance

Whilst our underlying performance is improving, the asset health of our network is fragile, and the dramatic range of temperatures experienced in the year caused a series of exceptional operational incidents.



# What we're doing to improve our performance

We're investing £12m on water production resilience, focusing on power resilience, critical spares, and resourcing.

We will minimise the impact of operational incidents by creating a full-time incident management team and by making sure that we have 24/7 capacity to deliver bottled water to our most vulnerable customers.

We plan to make more use of tankers to bring customer back in supply.

We're analysing data from our pressure loggers to understand impacts during supply interruptions.

#### Review of prior years' reporting

This year, the line definition for this PC has been updated to clarify that companies should report interruptions that are greater than or equal to three hours duration.

We've reviewed our prior year reporting and have not identified a need to restate prior years' performance.

We also confirm that our reporting excludes any supply interruptions to cattle troughs as required by Ofwat.

<sup>&</sup>lt;sup>16</sup> This is the average number of minutes our customers don't have water, for interruptions lasting three hours or more.

### Water quality compliance

BW068

Penalty: £16.043m

Measured with the Compliance Risk Index ("CRI"), the annual aggregated score of our level of treated water compliance incidents<sup>17</sup>

#### How we've done

We've missed our target this year.

This is a calendar year measure.

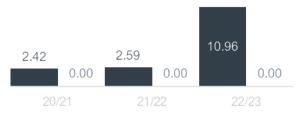
Our CRI performance this year has been affected by four microbiological incidents caused by ingress into the contact tank at:

- Coppermills WTW (February 2022)
- Hampton WTW (September 2022 three incidents).

These incidents alone contributed 8.87 to our overall figure.

The size of these sites means that any incidents have a much greater impact on overall performance than an equivalent incident at a Thames Valley site.

These incidents have been assessed as being unlikely to impact on public health.



# What we're doing to improve our performance

Key operational initiatives include the 'coliform zero' and 'turbidity zero' improvement plans, which focus on reducing risk at the large London process plants and focus on ingress.

In 2022/23 we took immediate action to cover our contact tanks at both Hampton and Coppermills WTWs to address the risk of ingress whilst major capital improvement schemes are on schedule for completion in 2023/24.

In addition, our investment programme aims to maintain or improve our assets' health. For example, in 2023/24, we will roll out 'fix it' plans identifying and addressing water quality risks across six sites (Fobney, Netley, Kempton, Coppermills, Ashford & Hampton).

We will also continue to develop our training and competency and make sure that we have clear and up to date procedures and documentation.

When an incident occurs, the cause is investigated and assigned a score between 0 and 5. The individual failures are aggregated into an annual score.

<sup>&</sup>lt;sup>17</sup> This measure aligns with the current risk-based approach used by the DWI.

### Mains Repairs

BW01

Penalty: £16.674m

Number of repairs we have made to the network per 1,000 kms of mains<sup>18</sup>

#### How we've done

We've missed our target this year.

Mains repairs have significantly increased from last year, which means we are doing more work than anticipated.

# How climatic conditions impacted our performance

Last summer's drought created an unprecedented 'soil moisture deficit', with ground drying out, which contributed to a significant increase in visible leaks requiring burst repairs.

The wet autumn and December freeze/thaw that followed meant further ground movement and an increase in the number of bursts on our network.

For example, our mains repair volume in December was 46% greater than at any equivalent time in the last ten years.

The drought also meant that we saw an increase in demand and had to pump more water through our pipes at higher rates, causing more leaks.



# What we're doing to improve our performance

We initiated our leakage recovery plan in late summer, significantly increasing the leakage detection activity and mains repairs undertaken to control overall leakage.

Over the next three years, we will spend close to £200m replacing water mains most prone to bursting.

Our calm systems programme enables us to prioritise our mains replacement using data on burst frequency, supply interruption hotspots and leakage sensitive areas.

We're investing in more surge loggers to proactively identify and address potential bursts.

We're still developing our 2023/24 mains repair strategy, but it will build on the ongoing mains rehabilitation and our response to this year's challenging conditions.

The more repairs we make, the worse we perform against this target. However, we will always prioritise customer needs.

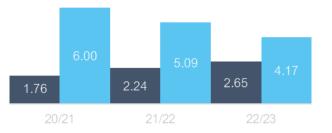
<sup>&</sup>lt;sup>18</sup> Our targets have been amended for 2023/24 and 2024/25 as part of Ofwat's approval of our PR19 conditional allowances to enhance the performance of our London water network in February 2023.

## Unplanned outages

BW02

Reward: £0m

% of water we were unable to supply due to unforeseen circumstances<sup>19</sup>



#### How we've done

We've met our target this year.

This is our third year of outperformance against this target.

Our outperformance reflects prompt operational responses to events.

The drinking water quality driven enhanced inspection programme and refurbishment of treated water structures, enhanced hazard review assessments and public health plan have a synergistic benefit on unplanned outage.

# What we're doing to improve our performance

While we concentrate on all unplanned outages, we are particularly focused on the reliability and resilience of our five London works as they contribute over 60% weighting to this measure, and they are critical to our continued outperformance.

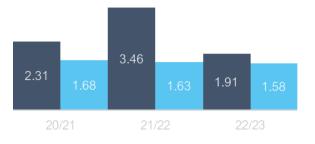
We are operationally focused on achieving longer-term improvements through asset criticality assessments, regular site trip reporting and response review, and a tool to assist with alarm management.

These improve our operational response to asset events to manage the system and keep customers in supply.

<sup>&</sup>lt;sup>19</sup> This is water we were unable to supply to our customers because of an unforeseen deterioration or failure of the assets we use to source and treat the water.

### Internal sewer flooding cso3

Penalty: £5.531m Number of internal sewer flooding incidents per 10,000 sewer connections



#### How we've done

We've missed our target this year.

Our underlying performance is much improved from last year, but we have still missed our target.

# How climatic conditions impacted our performance

Our performance has been affected by "one off "weather events, particularly in London where the built-up environment means heavy rain fall causes more sewer flooding than in the Thames Valley.

For example, the storms in August resulted in hydraulic floods being 600% over target, while the wet November increased hydraulic floods to 140% over target.

# What we're doing to improve our performance

We're conducting a review of planned activities and focusing on blowbacks and repeat floods, both of which should be preventable.

We will improve triaging at the first customer contact point and also data collection at the first touch point from the engineer.

This will allow quicker investigation and more efficient and accurate scheduling of follow-on work, whilst also allowing our teams more time to analysis floods and identify trends to improve proactive options to prevent flooding.

## Pollution incidents

ES01

Penalty: £9.345m

Number of pollution incidents per 10,000km of our wastewater network that pose a danger to the environment

#### How we've done

We've missed our target this year.

This is a calendar-year measure.

Based on the latest update from the EA, we had 331 pollution incidents<sup>20</sup> in 2022.

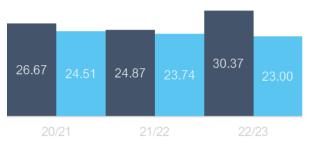
# How climatic conditions impacted our performance

Our performance has been adversely affected by the summer drought which caused lower flows in rivers resulting in discharges having a greater impact than they would otherwise have done.

As we operate in one of the most densely populated parts of the UK, our infrastructure sometimes struggles to cope with the volume of sewage that is put into it, particularly during periods of heavy rainfall.

During the intense rain in January, and storms in February 2022, we also experienced power outages and, in some instances, were unable to operate our pumps. This led to an increase in pollution incidents.

It should be noted that the Environment Agency ("EA") has chosen to exclude the impact of Storm Eunice (seven incidents in February 2022) from our pollution's



performance metric for this reporting period.

# What we're doing to improve our performance

Our plans for improving our performance are set out in our Pollution's Incident Reduction Plan ("PIRP"), which we are in the process of updating and will publish a revised version later in the year.

As well as rolling out the PIRP initiatives, we will deliver a transformation plan focused on additional training and changes to our existing processed.

The EA has provisionally assessed our 2022 Environmental Performance Assessment ("EPA") as 2-star (out of 4) <sup>21</sup>.

You can find more details in our PIRP.



Pollution Incident Reduction Plan

<sup>&</sup>lt;sup>20</sup> This excludes seven incidents relating to Storm Eunice that the EA has stated won't count in our total.

<sup>&</sup>lt;sup>21</sup> Per the EA's provisional EPA letter dated 26 May 2023.

### Sewer collapses

CS02

Reward: £0.340m

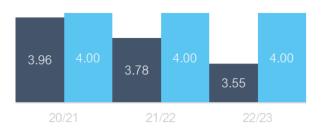
Number of sewer collapses per 1,000 km of sewer network  $^{\rm 22}$ 

#### How we've done

We've met our target this year.

We have met the target for this performance commitment for the third successive year.

This consistent level of performance follows the implementation of the new collapse reporting definition in year 1 of AMP7 and an increased planned sewer rehabilitation programme in AMP7.



# What we're doing to improve our performance

Planned programmes of gravity sewer CCTV survey and rehabilitation will continue in year 4, together with a new delivery model to allow a faster turnaround between the identification of sewer defects on CCTV surveys and the delivery of planned rehabilitation solutions from a wider pool of skilled contractors.

We will also prioritise investment in the planned rehabilitation or replacement of rising mains.

In the longer term, our digital team is scoping a project that will centralise the sewer collapse and rising main burst history data, enabling better asset deterioration analysis and long-term planning.

<sup>&</sup>lt;sup>22</sup> This is the number of sewer collapses or breaks which have impacted our customers or the environment, and where we have replaced or repaired the pipe.

# Treatment works compliance

*CS01* 

Penalty: £0m

% of our treatment works compliant with their discharge permit conditions



#### How we've done

We've missed our target this year.

This is a calendar year measure.

Although we have marginally failed to meet our target for 2022, we will not receive a penalty (as it is above the deadband).

We have had two numeric failures this year:

- Chalgrove STW, ammonia failure (May 2022)
- Fobney WTW pH failure (February 2022).

Senior incident reviews have been conducted for each of these failures and actions agreed to mitigate the risk of similar occurrences. Each review identified different causes.

Progress on the agreed actions is reviewed at the monthly compliance and pollution steering group which is chaired by the operational leadership team.

# What we're doing to improve our performance

Over the next two years, we will continue to invest in sewage treatment plants and sewers, including significant upgrades to wastewater treatment plants and sewerage networks to reduce storm discharges and pollution incidents.

It will help Thames Water achieve its commitment to reduce the total annual duration of discharges by 50% by 2030 compared to the 2020 baseline. This commitment includes an 80% reduction in discharges in particularly sensitive catchments.

Despite a detailed investigation, no definitive root cause was identified for the pH failure. However, we have identified actions to improve our processes going forward.

We are investing record sums in upgrading our sewer systems and treatment works and are striving every day to reduce the discharge of untreated sewage into our rivers. D-MeX

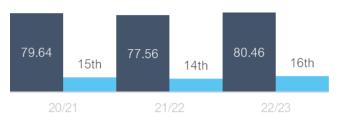
Penalty: £5.680m

Customer experience out of 100 through customer survey and actual performance <sup>23</sup>

#### How we've done

Despite stable performance on this measure, the sustained improvements of other water companies have impacted our league position.

In the year, we were ending the existing contractor partnership in place in the Thames Valley area. We experienced some issues during this period as the handover was taking place.



# What we're doing to improve our performance

We regularly review the quarterly qualitative survey data with senior and operational stakeholders within the business, to identify and implement improvement measures.

We're establishing new service delivery contracts for our developer markets, replacing the outgoing agreement and aiming to embed and sustain further improvements through this.

From April 2023, we've made environmental incentive discounts more accessible to developers that include water efficiency elements in their designs.

A new workflow management system will be delivered by the end of 2023/24.

<sup>&</sup>lt;sup>23</sup> The 17 largest water companies in the industry take part in a monthly qualitative customer satisfaction survey (50% of the measure). The remaining 50% is how we perform against selected Water UK service level targets. The results are used to calculate rewards or penalties based on the relative performance of the company.

## Risk of severe restrictions in a drought *DW01*

Reputational only

% of customers in our region at risk of severe water restrictions during a 1-in-200year drought

| 88.5% | 77.0% | 88.5% | 77.0% | 93.9% | 77.0% |
|-------|-------|-------|-------|-------|-------|
| 20/   | /21   | 21    | /22   | 22    | /23   |

#### How we've done

We've missed our target this year.

This measure has been adversely affected by our performance in leakage, mains repairs and PCC.

This AMP, we forecast that the Swindon and Oxfordshire ("SWOX") water resource zone would be in surplus.

However, the level of demand in that area over the past years has exceeded what was forecast, resulting in a deficit, partly due to the weather and partly due to changing habits since covid as more people continue to work from home.

## What we're doing to improve our performance

Our performance of this measure will improve as components of our action plan deliver our turnaround.

## Risk of sewer flooding in a storm *DS01*

% of the population at the risk of sewer flooding in a storm from a 1 in 50-year storm

| 10.25% | 10.25% | 10.25% | 10.25% | 10.25% | 10.25% |
|--------|--------|--------|--------|--------|--------|
| 20/    | /21    | 21     | /22    | 22     | /23    |

#### How we've done

We've met our target this year.

## What we're doing to improve our performance

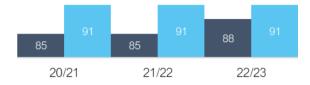
The key factor that may change our reported performance in this AMP will be the opening of the Thames Tideway Tunnel. Other than that, we have no major flooding schemes planned.



# Bespoke performance commitments

## Satisfied vulnerable customers *AR05*

Reputational only satisfaction levels of customers who are on our priority services register (%)



#### How we've done

We've missed our target this year.

There have been no changes to service delivery, but we've improved slightly as we've updated the customer satisfaction measurement from1-5 to 0-10 to align with C-MeX customer surveys <sup>24</sup> increasing the data diversity.

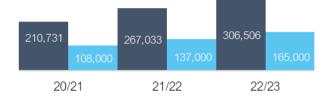
### What we're doing to improve our performance

Our wider C-MeX improvement plans will drive continued achievement of this performance commitment.

These measures incentives us to be there for our customers when they need us. You can find out more on our social tariffs in Table 2N on page 152.

## Households on our social tariff *ER03*

Reputational only households receiving support from our social tariff



#### How we've done

We've met our target this year.

The introduction of a new income and expenditure assessment for customers has had a positive influence on our social tariff growth this year, while the cost-of-living crisis has helped to increase both awareness and demand for our social tariffs and related support.

The rapid growth in households on our social tariff since 2020 is due to our engagement with local authority and housing associations. We have now reached two thirds of the eligible population.

## What we're doing to improve our performance

We'll continue collaborating with partners to share data, provide targeted proactive support and optimise the criteria for social tariffs.

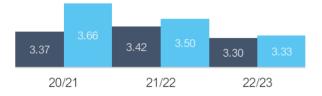
Future growth will be reduced as we engage with customers who are hard to reach or new to financial pressures.

We're expanding criteria for our social tariff so that those spending a high proportion of net income on water can obtain support.

<sup>24</sup> This change of approach has been agreed with Ofwat.

## Empty household properties *ER02*

Reward: £0.231m % of empty household properties in our billing system



#### How we've done

We've met our target this year.

We recruited a voids management team at the start of 2022/23 who have made good progress this year in reducing the number of properties listed on our 'empty' database.

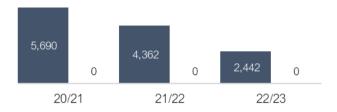
## What we're doing to improve our performance

The increase in the number of serviced apartments and Airbnb type properties has proven challenging when trying to bill an end user, and we are currently working on a longer-term solution to address this.

The cost of living crisis is suspected to have had an impact on customers informing us that they've moved into properties, increasing reliance on our voids recovery processes.

## Empty business properties *EWS08*

#### Reward: £0.278m Properties billed that were previously on listed on our system as empty (nr.)



#### How we've done

We've met our target this year.

## What we're doing to improve our performance

We'll continue to positively engage with retailers, as well as making greater use of outputs from of our external data matching partner.

These measures incentivise us to make sure that all properties that we should be billing are registered on our systems and billed for their water usage.

### Unregistered household properties

ER01

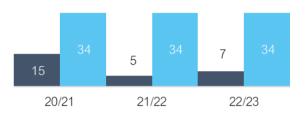
#### Penalty: £0.211m

How we have done against our plan to identify households that are not being billed

| 20/21     | 21/22     | 22/23     |
|-----------|-----------|-----------|
| not       | not       | not       |
| completed | completed | completed |

## Properties at risk of receiving low pressure

Penalty: £0m How many properties are receiving, or at risk of receiving low pressure (nr.)



#### How we've done

We've missed our target this year.

## What we're doing to improve our performance

We have plans in place to achieve this target over the next 2 years of the AMP.

#### How we've done

We've <u>met</u> our target this year for the third consecutive year by carefully managing the impact of supply and demand during the drought.

In previous years, the exceptional demand would have had a greater impact on this measure.

## What we're doing to improve our performance

We will continue to focus on resolving customer issues more quickly while also giving regional teams with local knowledge more responsibility for tracking and resolving each case.

Low water pressure affects our customers by slowing the amount of water coming out of the tap so that even simple things like filling a glass with water takes longer.

#### Proactive customer engagement

AWS02



#### How we've done

We've missed our target this year.

As part of business prioritisation, a decision was taken to scale back activity in this area.

Currently, most of the proactive customer engagement activity is focused on London, due to the greater proportion of customers.

### What we're doing to improve our performance

We continue to develop and implement enhanced digital customer engagement capability (e.g. smart meter portal) so that we can proactively email engagement to all smart metered households, and longer term to all households.

Our PR24 plan embeds digital customer engagement and proactive targeted water efficiency visits as part of the effort to meet demand reduction targets.

The table summarise our proactive engagement with our customers in the last year.

| •                                    |        |        |
|--------------------------------------|--------|--------|
| Activity                             | 21/22  | 22/23  |
| Smarter home visits                  | 20,993 | 2,366  |
| Smarter business visits              | 3,688  | 387    |
| Smarter home wastage visits          | 2,293  | 300    |
| LAHA <sup>26</sup> visits            | -      | -      |
| Proactive smart CSL repairs          | 2,183  | 2,607  |
| Greenredeem <sup>27</sup>            | 8,622  | 669    |
| NHH fat, oil and grease (FOG) visits | 7,874  | 15,825 |
| School visits                        | 173    | -      |
| Digital smarter home visits          | 3,667  | -      |
| Digital education visits             | 126    | 43     |
| Digital portal engagements           | -      | -      |
| Proactive lead pipe replacements     | 14,496 | 13,389 |
| TOTAL                                | 64,115 | 35,586 |
|                                      |        |        |

<sup>&</sup>lt;sup>25</sup> As part of this PC we also committed to publishing a net promoter score). However since C-MeX replaced NPS as the customer satisfaction measure, we are unable to provide this information.

<sup>&</sup>lt;sup>26</sup> Local Authority Housing Associations ("LAHA") - discontinued after 2020/21.

<sup>&</sup>lt;sup>27</sup> The <u>Greenredeem</u> scheme motivates our customers to reduce water consumption, through behaviour change, by winning prizes, donating to charities and redeeming gift cards.

## Securing our sites (2020-25 projects) DWS02

Penalty: n/a % of 28 borehole sites we have made SEMD compliant



#### How we've done

We've met our target, this year.

This is a PC where our performance is assessed at the end of AMP.

We've delivered 15 projects so far in this AMP and are ahead of schedule.

## What we're doing to improve our performance

We introduced a new governance structure at the start of AMP7 which has improved the outputs.

This, together with improved dialogue with our suppliers and contractors, means that we are on target to deliver all the outputs for AMP.

Security and Emergency directives ("SEMD") are notices, issued by Defra under s208 of the Water Industry Act 1991, about national security or the need to mitigate the effects of a civil emergency.

#### Securing our sites (legacy projects) DWS03

Penalty: n/a Percentage of 264 AMP6 sites we have made SEMD compliant (%)



#### How we've done

We've met our target this year.

This is a PC where our performance is assessed at the end of AMP.

We've delivered 180 projects so far in this AMP and are ahead of schedule.

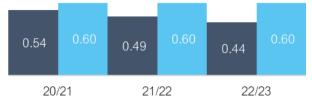
## What we're doing to improve our performance

At Hampton WTW, there was a delay to planned works due to the contact tank leaking, but a workaround has now been found and progress continues.

We continue to work collaboratively across the delivery teams to provide the most efficient and cost-effective approach and are on target to deliver all the outputs for AMP.

## Acceptability of water to consumers *BW08*

Penalty: £0.0m Times we've been contacted <sup>28</sup> by customers about their water per 1000 population



#### How we've done

We've met our target this year.

This is a calendar year measure.

## What we're doing to improve our performance

We forecast that performance will be maintained below the target of 0.60 during the AMP.

We will continue to minimise customer complaints relating to water quality issues through day-to-day operational management and provision of relevant information on the company's website relating to typical water quality issues.

## Number of water quality events *BW09*

Penalty: - £0.142m Water quality events categorised as 3, 4 or 5 by the DWI that impact customers (nr.)



#### How we've done

We've missed our target this year.

This is a calendar year measure.

Three quarters of the notices issued relate to network and site incidents.

The remaining quarter relate to the condition of internal plumbing systems which are outside of the company's direct control.

## How climatic conditions impacted our performance

Our performance has been particularly impacted by climatic events that have exposed the lack of resilience within our supply systems.

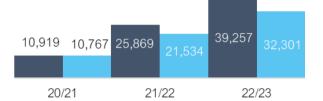
## What we're doing to improve our performance

Our improvement in this metric is strongly linked to our plans for leakage and mains repairs, along with water quality specific improvement schemes.

<sup>&</sup>lt;sup>28</sup> The contact might be in relation to the taste, odour or cloudiness of their water, or a report of an illness due to our drinking water.

## Reducing risk of lead *BW10*

Reward: £0.689m Cumulative number of lead communication pipes we will replace in the 2020/25 period



#### How we've done

We've met our target this year

This is our third consecutive year of outperforming the target and reflects our focus on accelerating this programme.

## What we're doing to improve our performance

Our performance will be maintained based on the processes established and engrained over the previous 3 years.

Our water mains aren't made of lead, but some older properties have a lead communication pipe between our water main and the outside stop valve. We are gradually replacing lead pipes.

## Responding to major trunk mains bursts *BW11*

Reputational only Average number of minutes customers are without water<sup>29</sup> because of a burst (mm:ss)



#### How we've done

We've <u>missed</u> our target this year. The number of major trunk main bursts increased from eight to nineteen.

Two significant trunk main events contributed 07:58 to this measure:

- Oxford Event in October (05:53)
- Belsize Road, NW6 in December (02:05).

## How climatic conditions impacted our performance

See our explanation for mains repairs.

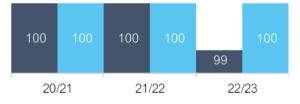
## What we're doing to improve our performance

Improvements in this measure will be attained through the implementation of our action plans for mains repairs.

<sup>29</sup> Categorised as for three hours or more, with trunk mains being our largest network pipes.

## Security of supply index

Penalty: £0.224m Our ability to maintain a water supply, particularly during a drought <sup>30</sup>



#### How we've done

We've missed our target this year.

Our modelling has shown a small risk of insufficient supply in the SWOX region, estimated as 3MI/d during a peak demand event.

## How climatic conditions impacted our performance

We are working to assess how the exceptionally hot and dry weather in summer 2022 and the implementation of the temporary usage ban ("TUB") impacted on our understanding of peak demand.

### What we're doing to improve our performance

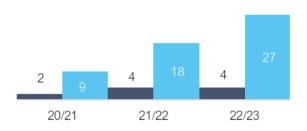
We need to improve resilience in our SWOX area. A programme of work is planned which includes a major investment of our Gatehampton WTW.

#### Power resilience

DWS01

Penalty : n/a

Cumulative number of our key sites that we have made resilient to power disturbances <sup>31</sup>



#### How we've done

We've missed our target this year.

This is a PC where our performance is assessed at the end of AMP.

We have not delivered anything specifically against this commitment this year.

However, we have completed a review of our current level of resilience including:

- Understanding of likely impacts e.g. large scale supply loss, waste spills, power outages;
- Progressing key mitigations e.g. priority sites/ tanker locations, generator/ uninterrupted power supply servicing, satellite phones;
- Conducting two internal exercises; and
- Working closely with Defra and Water UK to contribute to national planning.

## What we're doing to improve our performance

While we don't expect to deliver any further outputs specifically against this commitment, we will continue to focus on resilience in the round.

<sup>30</sup> The index is based on the difference between the available headroom and the target headroom in each WRZ in a dry year

<sup>31</sup> For interruptions over three hours.

## Clearance of blockages

0304

#### Penalty: £8.811m Blockages<sup>32</sup> we've cleared from the network



#### How we've done

We've missed our target this year.

Customers' behaviour continues to be a problem as approximately 80% of blockage clearances are caused by customer related issues (fat, oils and greases ("FOG") or wet wipes).

However, we have also encountered resource constraints during the latter half of the year that has impacted on our performance.

### What we're doing to improve our performance

We are reviewing our resource and vehicle availability to ensure a prompt, 'right first time' response. We are also continuing to improve the analysis informing our planned programme so that we proactively clear blockages from the most problematic areas of the network. This should also reduce our sewer flooding risk.

#### The lower the number of blockages, the fewer issues we have with the operation of the sewer network.

## BSI for fair, flexible inclusive services AR07

Reputational only Renewal of our annual certification<sup>33</sup>

| 20/21    | 21/22      | 22/23      |
|----------|------------|------------|
| achieved | maintained | maintained |

#### How we've done

We've met our target this year.

We maintained our accreditation without any non-compliances recorded and with good feedback received.

By modifying our quality management systems, we have improved our contact centres' capability to spot customer vulnerability.

We also rolled out an improved mandatory e-learning module for our customer support teams.

## What we're doing to improve our performance

We will continue to identify opportunities to improve training for our frontline field teams.

We are also reviewing the ISO standard which will replace the BSI18477 in March 2024.

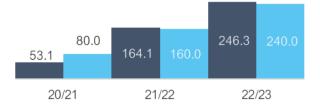
<sup>&</sup>lt;sup>32</sup> Obstruction in a sewer which causes a reportable problem (e.g. flooding)

<sup>&</sup>lt;sup>33</sup> In order that our service is available to all, in AMP7, we committed to achieving then maintaining the British Standard Institute's vulnerability standard BS1847.

## Installing new smart meters in London *M01*

Penalty: n/a

Cumulative number of new, smart <sup>34</sup> meters that we have installed in London since 1 April 2020 (in thousands)



#### Replacing existing meters with smart meters in London MO2

Penalty: n/a

Cumulative number of basic<sup>35</sup> meters replaced with smart meters in London since 1 April 2020 (in thousands)

#### How we've done

We've met our targets this year.

These are PCs where our performance is assessed at the end of AMP.

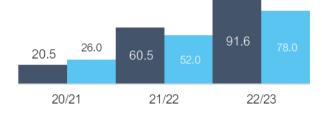
We experienced shortages in component availability at the beginning of the year, but this was eased through collaborative working with suppliers.

## What we're doing to improve our performance

2023/24 will see a change in our work mix as we focus on our internal installation programme.

We'll continue to work closely with our delivery partner to make sure resources are available and utilised effectively.

We'll continue to balance our roll out with providing operational support during winter leakage incidents.



#### Our smart metering programme is focussed on London as it is our most water stressed area.

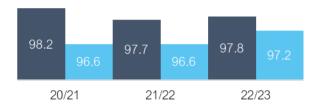
In November 2022, we installed our one millionth digital meter.

<sup>&</sup>lt;sup>34</sup> A smart meter is a meter that uses advanced metering infrastructure ("AMI") to be read remotely. <sup>35</sup> An existing meter is one installed in the Thames Water network prior to 1 April 2020 without smart meter capability.

## Sewage pumping station availability *csos*

Penalty: £0m

Average number of pumps available for use in our sewage pumping stations (%)



#### How we've done

We've met our target this year.

### How climatic conditions impacted our performance

Even though we have met this target, our performance has been adversely affected by the increase in both the frequency and magnitude of extreme rainfall events.

Their occurrence after extended dry periods resulted in abnormal volumes of debris causing pump blockages and failures.

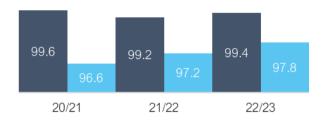
### What we're doing to improve our performance

We're automating data collection, removing the need for detailed reconciliation of manual trackers and improving our response times.

Our tracking of flow and pumping trends for each site and the frequency of data capturing is being improved to gain a more accurate reflection of asset availability.

## Sludge treatment before disposal *ES03*

Penalty: £0m Sludge that we treat before disposal (%)



#### How we've done

We've met our target this year.

The majority of the remaining untreated sludge was a result of ongoing optimisation at our Oxford and Basingstoke sludge centres. A proportion of sludge from Little Marlow was sent to land (restoration) as there is currently insufficient cake reception capacity at our advanced digestion sites due to the optimisation programme.

The volume to restoration was lower than last year.

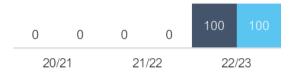
## What we're doing to improve our performance

Investment is being made to improve the condition of our assets. Alongside this, the implications of new regulations (the Industrial Emissions Directive) impacting bioresources.

## Sewage sludge is a product of the wastewater treatment process.

#### Drainage and wastewater management plans *DWMP*

Reputational only Cumulative % completion of our DWMP in line with Water UK requirements

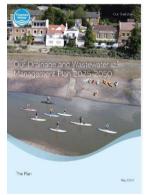


#### How we've done

We've met our target this year.

Ofwat has extended the submission deadline from 31 March 2023 to 31 May 2023, so we have agreed with Ofwat that to claim 100% compliance.

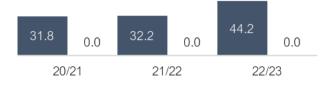
Our DWMP was published in May 2023 and will be used to support our business plans for AMP8.



#### Abstraction incentive mechanism ("AIM") *EW01*

Penalty: £0m

Abstraction from environmentally sensitive sites <sup>36</sup> when levels are low (MI/d)



#### How we've done

We've missed our target for this year.

AIM reduces abstraction of water at five environmentally sensitive sites when flow or levels are below an agreed point.

We've worked hard to implement AIM wherever possible, without compromising security of supply, and were able to reduce our AIM score as the drought receded and pressures of our resources reduced.

## How climatic conditions impacted our performance

The extremely low river and groundwater levels, high water resources pressure and high demand caused by the drought meant we were unable to comply with AIM at Axford and Pangbourne.

## What we're doing to improve our performance

We'll maintain good communications with site operatives to allow us to comply with AIM when possible, however our customers security of supply will always be our priority.

<sup>36</sup> We have included five sites in this measure: Pangbourne groundwater source, and the pumping stations of New Gauge, Axford, Pann Mill, and North Orpington.

#### WINEP Delivery *NEP01*

Reputational only Whether we have delivered our WINEP programme<sup>37</sup>

| 21/22   | 21/22   | 22/23   |
|---------|---------|---------|
| Not met | Not met | Not met |

#### Environmental measures delivered *ESO2*

Penalty: n/a Cumulative number of "green" status schemes in the WINEP programme at 1 Apr 2019, completed in AMP7.

| 187 | 180 | 433 | 446 | 536 | 534 |
|-----|-----|-----|-----|-----|-----|
| 20/ | 21  | 21/ | 22  | 22/ | /23 |

#### How we've done

We've missed our target for this year.

This year's performance is 'not met', as we have not delivered all the expected schemes in the WINEP programme in part due to internal programme management and cost constraints, along with supply chain issues and land access issues.

The EA has not accepted our request to alter the delivery dates.

These missed outputs also impact the ES02 measure.

## What we're doing to improve our performance

We will continue progress checks with delivery teams to flag risks early and explore mitigation.

WINEP is also now subject to strategic programme review which brings greater coordination and visibility to improve our delivery.

#### How we've done

We've met our target this year.

This is a PC where our performance is assessed at the end of AMP.

We have delivered slightly ahead of our target, due to acceleration of the event duration monitoring programme.

This year, four of the measures submitted to the EA are yet to be approved (although we are satisfied that they meet the approval criteria).

## What we're doing to improve our performance

Our performance is unlikely to be maintained next year as we have a large number of complex schemes remaining in the AMP programme and there is a risk that not all schemes can be completed. Not all schemes agreed with the EA at PR19 remain on the current list of obligations.

We will continue tracking outputs to understand our delivery position to attempt to partially mitigate this issue by bringing forward 2024/25 schemes where possible and prioritising schemes with the greatest cost-benefit ratio.

<sup>&</sup>lt;sup>37</sup> The Water Industry National Environment Programme ("WINEP") is a list of actions that Defra has requested all water companies complete in AMP7 to contribute to meeting their environmental obligations.

## Surface water management DS02

Penalty: n/a Area (in hectares) where surface water is disconnected<sup>38</sup> from the public sewer system

## Renewable energy produced *Ewsos*

Reward: £2.096m Amount of renewable energy<sup>39</sup> produced (in GWh)



#### How we've done

20/21

5.00

0.00

We've missed our target for this year.

0.11

21/22

0.66

22/23

This is a PC where our performance is assessed at the end of AMP.

We've experienced delays in project delivery, due to planning and/ public engagement requirements.

This year the cost of living crisis has impacted resourcing in some local authorities.

## What we're doing to improve our performance

With the majority of legal agreements and collaborative ways of working with our delivery partners agreed, (e.g. councils, charities and schools), we can move forward with supporting project delivery.

We anticipate a significant increase in hectares delivered in 2023/24.

#### How we've done

We've met our target this year.

The quantity of renewable heat produced and reported increased due to operations prioritising the use of biogas in the boilers over combined heat and power ("CHP") and due to better data collection.

The Deephams biomethane plant Renewable Heat Incentives ("RHI") accreditation in the year further contributed to this increase.

However, renewable electricity produced decreased as less gas was used in CHP engines.

## What we're doing to improve our performance

We will continue to drive performance of sludge treatment, to maximise biogas production and generation assets to maximise the quantity of renewable energy produced (heat and electricity).

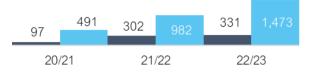
Next year, we will be commissioning new solar projects as well as an additional biomethane plant at Mogden STW.

<sup>&</sup>lt;sup>38</sup> This is the area which through appropriate surface water management is diverted and passed through either a sustainable drainage system or new surface water system that does not communicate with combined sewers.

<sup>&</sup>lt;sup>39</sup> These are electricity, heat and gas, solar and bromide and energy sources, such as biogas, which are exported to the national grid.

#### Enhancing biodiversity *EWS01*

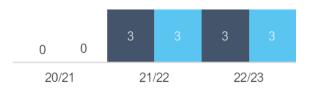
Penalty: n/a Natural habitats we've created and enhanced our 61 sites of Biodiversity



Interest (nr.)

#### Smarter water catchment Initiatives *Ewso2*

Penalty: £0m Delivering smarter water catchments initiatives <sup>40</sup> (nr.)



#### How we've done

We've missed our target this year.

This is a PC where our performance is assessed at the end of AMP.

While we continue to support nature recovery, the budget related to the delivery of this performance commitment has been removed as we prioritise other deliverables. Alternative options are still being considered.

## What we're doing to improve our performance

We continue to pursue a corrigenda document to reflect changes in the Defra measurement tool (e.g. to remove areas of land that have been sold and heavily modified waterbodies (reservoirs) where biodiversity enhancements cannot be made).

#### How we've done

We <u>met</u> our target for this measure last year by creating the three catchment plans.

We've continued to deliver a range of actions against each catchment plan in agreement with our external stakeholders, ranging from water quality analysis and modelling to the implementation of wetlands.

## What we're doing to improve our performance

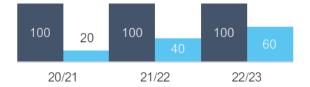
We'll continue working in partnership to deliver the actions set out in each subsequent year.

## The latest version of our plans can be found on our <u>website</u>.

<sup>40</sup> We have committed to delivering smarter water catchments initiatives in three river catchments (Chess, Crane, and Evenlode). These whole river interventions will address multiple environmental issues.

## Natural capital accounting *EWS04*

Reputational only % landholdings where natural capital stocks are assessed<sup>41</sup> and reported publicly



#### How we've done

We  $\underline{met}$  our target in the first year of the AMP.

## What we're doing to improve our performance

We continue to contribute to the nonnumeric target component, but no further improvements are planned.

We are developing a methodology to allow natural capital data to be used during our 'needs' solution optioneering process.

We have over 6,500 hectares of sites including treatment works, recreational sites and nature reserves. Counters Creek cc

Understanding the risk of flooding and level of resilience within the catchment

| 21/22 | 21/22 | 22/23 |
|-------|-------|-------|
| n/a   | n/a   | n/a   |

#### How we've done

This PC does not have a target this year.

Our performance ('met' or 'fail') will be measured in 2023/24 when we will deliver a fully assured report which sets out our understanding of the risk in the catchment and outlines its long-term strategy for alleviating flooding in the area.

## What we're doing to improve our performance

We have resourced up with partners to deliver the output by 31 July 2023 and meet the external assurance required. The external assurance has also been procured.

No further action will be taken on this PC after completion of the studies in July.

We are also required to report annually on how we are managing the resilience of our network in the area, and how we have increased our understanding of the flood risks in the catchment.

You can find this report on the following pages.

<sup>&</sup>lt;sup>41</sup> By better understanding the current condition of the environment that we own, or can influence, and the impact of our interventions.

Counters Creek was a river in London, rising north of Kensal Green Cemetery and joining the tidal Thames south of the old Cremorne Gardens, incorporated into the sewer system when the Victorian sewers were constructed in the late 1800s as part of our combined sewer system.

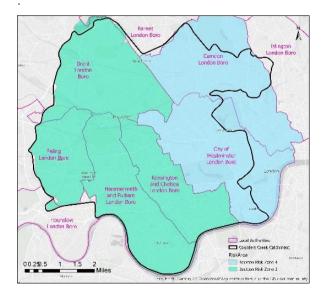
#### Counters Creek Study 2022/23

This is our annual report to demonstrate how we are managing our network to manage long-term resilience and reduce flood risk for customers who live in the Counters Creek Catchment.

It outlines the activities undertaken between 1 April 2022 and 31 March 2023.

The London sewer system does not have a conventional dendritic, branch-like structure and so flow routes can vary depending on rainfall locations and intensities.

Below is a map of the area. The bold black boundary indicates the area where rainfall can affect flow in the Counters Creek sewer.



### Drainage and wastewater management plans ("DWMP")

The DWMP underwent public consultation in summer 2022. There were very minor technical revisions to the solutions proposed for the Counters Creek Area.

The final DWMP plan was released on 31 May 2023.

To find out more about the DWMP in the Counters Creek area, please refer to the <u>catchment strategy plan</u> ("CSP") for Beckton.

#### London flood review

On 12 July 2021, the Counters Creek area was affected by an extreme rainstorm that flooded more than 1,500 properties. We commissioned an independent review into the causes of July 2021 floods. The final report from the London Flood Review ("LFR") was published on 12 July 2022 and can be found on our <u>website</u>.

The key findings of the LFR were:

- The main cause of the flooding was the intensity of the rain, compounded by the tide-locking of the combined sewer overflows into the Thames, which caused the network to back up
- All our drainage assets, including pumping stations and various flood alleviation schemes, worked to expected standards, but were overwhelmed by an intensity of rain beyond their design capacity
- There is no silver bullet solution to manage this increasing risk. A range of 'grey' and 'green' infrastructure solutions, as well as a significant increase in public awareness will be required.

The LFR made 28 recommendations. Three of the recommendations are clearly the responsibility of Thames Water to lead on and fit with our sewer flooding strategy. The activity to enable these recommendations is underway and progress on these will be reported annually. The remaining 25 recommendations either require the close collaboration of several organisations to achieve them or the lead organisation is other than Thames Water.

### London surface water strategic group ("LSWSG")

The July 2021 floods highlighted that London's drainage systems are an integrated system-of-systems and that managing flash-flooding from intense storms requires the close collaboration of all responsible agencies. Both the London flood review and the Mayor's surface water roundtable identified the need for a highlevel, multi-agency, 'strategic group' to drive the co-ordination and necessary collaboration between the various partners, and to produce and deliver a London-level surface water management strategy and action plan.

This led to the formation of the London surface water strategic group, which is made up of organisations with a strategic interest and/or responsibility for managing surface water flooding. It comprises representatives from six lead local flood authorities, and the Director/Mayoral adviser level representatives from the Greater London Authority, Transport for London, EA, London Fire Brigade, Thames Regional Flood and Coastal Committee ("TRFCCT") and Thames Water.

In the LSWSG commissioning the Londonlevel surface water management strategy, the first recommendation of the LFR have been initiated. The LSWSG are also developing a work programme of quick wins/ no regret actions that can be delivered in parallel to the development of the London-level strategy and actions plan/s. The LSWSG will also review the remaining 25 recommendations made by the LFR.

#### Sewer flooding resilience programme

We have initiated at £10m programme to identify properties in Counters Creek flooded by the July 2021 storms, assess how they were flooded and, for properties at higher risk of sewer flooding, to install measures to increase their resilience.

To date, we have surveyed over 900 properties and we have begun a risk-based programme on installing anti-sewer flooding devices (non-return valves and Flooding Local Improvement Projects ("FLIPS")), with over 300 properties protected so far.

#### Assured Counters Creek study

The report to meet the Ofwat performance commitment is complete and going through review by the London Borough of Hammersmith and Fulham and the Royal Borough of Kensington and Chelsea in May and June 2023.

It has also been independently assured with the assurer engaged in the review by the two boroughs.

The final report will be published in July 2023.

## TTT Readiness of Beckton STW *ET01*

Penalty: n/a Ability of Beckton STW is to receive flows <sup>42</sup>

| months | 20/21 | 21/22 | 22/23 |
|--------|-------|-------|-------|
| Actual | N/A   | N/A   | N/A   |
| Target | N/A   | N/A   | N/A   |

#### How we've done

This PC does <u>not have a target</u> for this year. The TTT isn't due to be fully operational until 2025.

## TTT Effective stakeholder engagement *ETO2*

Reputational only How well we are engaging with stakeholder



#### How we've done

We've met our target this year.

An external research company, Yonder, carry out interviews with key stakeholder organisations to get independent feedback on the effectiveness of our engagement with senior members of key stakeholder organisations.

Engagement is scored between 1 (extremely poor) and 6 (extremely well) via a single survey of multiple questions.

## What we're doing to improve our performance

We will continue undertaking our stakeholder surveys and forming a response plan from the results.

<sup>&</sup>lt;sup>42</sup> This measures, in months before commission date, that we have completed upgrades to the inlet works at Beckton Sewage Treatment Works ready to receive flows from the TTT.

## TTT Critical asset readiness *ET04*

#### Penalty: n/a How ready out infrastructure is for TTT<sup>43</sup>

| months | 20/21 | 21/22 | 22/23 |
|--------|-------|-------|-------|
| Actual | N/A   | N/A   | N/A   |
| Target | N/A   | N/A   | N/A   |

## TTT Effective system operator *ET05*

Reputational only Our % readiness to operate the TTT when it is commissioned<sup>44</sup> <sup>45</sup>



#### How we've done

This PC does not have a target for this year.

The TTT isn't due to be fully operational until 2025.

However, during 2022/23, we have delivered additional scope (flap valve replacement at Lots Road) following investigations which confirmed decreased asset performance would have impacted the LTT construction and commissioning programme if left unaddressed.

#### How we've done

We've met out target this year.

## What we're doing to improve our performance

We currently forecast all deliverables will be completed ahead of the revised commissioning date.

<sup>&</sup>lt;sup>43</sup> How long before commission date, in months, we have completed infrastructure to receive flows from the TTT.

<sup>&</sup>lt;sup>44</sup> Due to the changes to the commissioning date the 21/22 and 22/23 targets have been updated from 100 to 0 in line with the revised delivery dates.

<sup>&</sup>lt;sup>45</sup> The activities relate primarily to establishing a fully trained team to operate the tunnel with adequate procedures and externally accredited management systems.

## TTT Maximising value of land sales *ETO6*

Reputational only Net profit or loss made on the sale of land related to the TTT  $^{\rm 46}$ 

| £m     | 20/21 | 21/22 | 22/23 |
|--------|-------|-------|-------|
| Actual | 0     | 0     | 0     |
| Target | 0     | 0     | 0     |

## TTT Managing early hand back of land *ET07*

Reward: n/a How prepared we are to receive land back from Bazalgette Tunnel Ltd <sup>47</sup>

| months | 20/21 | 21/22 | 22/23 |
|--------|-------|-------|-------|
| Actual | 3     | 0     | 6     |
| Target | 0     | 0     | 0     |

#### How we've done

We've met out target this year.

No land parcels have been sold in this period.

## What we're doing to improve our performance

To prepare for the eventual disposal of these sites, during 2022/23, we completed a Royal Institution of Chartered Surveyors 'red book' valuation of the sites to establish values as at May 2021 which we will use to establish values which we will use to inform business planning/strategy development.

We continue to engage with key stakeholders, including local authorities and landowners, who hold option or pre-emption rights to re-acquire the sites.

We also have regular meetings with Ofwat and its advisors to provide ongoing progress updates.

#### How we've done

We've met out target this year.

This is a PC where our performance is assessed at the end of AMP.

We've received land back six months earlier than planned. The DRMST Causeway Island was handed back in January.

### What we're doing to improve our performance

We will continue to work closely with Bazalgette Tunnel Limited to minimise delays and increased costs arising from programme issues

<sup>&</sup>lt;sup>46</sup> 12 parcels of land that we acquired in relation to TTT. All are scheduled for disposal in AMP7.

<sup>&</sup>lt;sup>47</sup> In months, how we have avoided project delays or cost overruns that would negatively impact customers by receiving land back early from Tideway once they have completed necessary work.



## About complaints

#### About complaints

## Overall, our 2022/23 complaint volumes were 28%<sup>48</sup> lower than in 2021/22.

#### Telephone complaints

This year we received 54% less telephone complaints than in the previous year.

We've continued to improve our handling of calls from dissatisfied customers using our manager call back process, with particular focus on getting things right first time so that customers do not have to contact us more than once.

In 2022/23 we completed nearly 11,000 first line manager call backs – resolving significantly more issues on the day.

in April 2022, we launched our asynchronous messaging service (WhatsApp) a continuation of the web chat capability we launched the previous year. This has helped us to reduce the volume of billing calls by 19%. We handle around 15,000 messages and over 30,000 webchats each month.

We've continued to make improvements in reducing operational customer wait times (both for water and wastewater) within our operations contact centre which supported in our overall complaints reduction.

#### Written complaints

Disappointingly, and despite the increased availability of real time contact channels, our written complaints increased by 15%.

#### Improvement plans

We're making key improvements to improve our complaints performance by:

- Insourcing all inbound customer service activity. This offers a significant opportunity to further improve complaints performance via both main contact channels – written and telephone.
- Our outsourcing review which offers further strategic opportunity to reduce complaints, with contracts awarded to:
  - Tech Mahindra, who will provide digital customer communications
  - EXL will provide back office transactional services
  - SPS Ltd will provide post room and document handling capability.

Our new partners have been selected to digitise and automate key areas of our service offering, supporting customers to self-serve, and making journeys easier and more seamless.

- Continuing to grow our existing social and Watersure tariffs, we currently support over 300,000 customers and launched additional support schemes and new entry criteria in December and March
- Ongoing process improvements by our operational case management teams, including new ways of working in water and waste, alongside proactive case management for the journeys with the greatest impact for our customers.

<sup>&</sup>lt;sup>48</sup> Complaint volumes for 2022/23 were 75,768 (in 2021/22, 105,155).



London and Thames Valley & Home Counties performance

## London and Thames Valley & Home Counties performance

#### As part of our business plan for 2020 to 2025, we've been asked by Ofwat to report on London performance separately.

We're reporting performance for 18 performance commitments which have been chosen because of our ability to collect the data, benefits for decision making and how useful the information is to our customers and stakeholders if they want to understand our performance at a regional level.

#### How we define London

Water: London water resources zone for water.

**Wastewater**: area covered by the eight large London sewage treatment works.

#### Our regional model

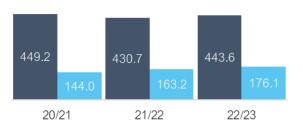
We launched our new regional operating model on 1 April 2022, which focuses separate operational teams on London and, in a separate region, the Thames Valley and Home Counties ("TVHC") – bringing us close to our customers and better driving performance improvement.

This model helps us, and our stakeholders, to better understand the different opportunities and challenges we have in the two regions of our business, particularly relating to geography and the differing ages of our network.

We explain how the total company level performance commitment is calculated in the section above.



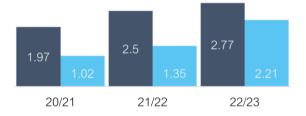
#### Leakage (annual average)



TVHC is a complex mix of urban towns surrounded by large rural areas where customer demand fluctuates significantly in the summer.

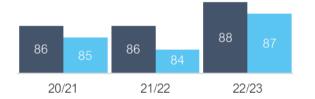
As a result it is more likely to be impacted by resource and performance challenges

#### Unplanned outage (%)



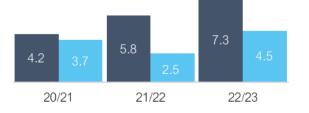
The measure is very sensitive to the size of works that has an outage. As London has a greater number of complex and large production plants, an outage in London will tend to have more impact on the overall % than one in the TVHC.

#### Satisfied vulnerable customers (%)



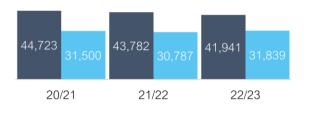
There is no material difference in performance between London and the Thames Valley.

#### Priority services for vulnerable customers (Reach) (%)



There is a larger proportion of water only company ("WOC") households in TVHC, resulting in a lower % of PSR customers in TVHC compared to London.

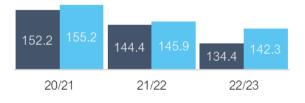
#### Blockages (nr.)



There are more blockages in London, consistent with there being more sewers in the region.

### Per Capita Consumption

(annual average)



A higher proportion of outside garden space in TVHC caused higher peak demands during warm temperature days. For example, average daily household consumption increased between 13-48% in homes with outside garden space, when temperatures exceeded 25°C.

#### Water supply interruptions

(mm:ss)



Water supply interruptions tend to be higher in TVHC as alternative supplies are limited by a lack of network connectivity.

TVHC also experiences more variations in pressure levels (due to ground height variations) while its more rural nature increases travel time and speed of identification.

#### Internal sewer flooding

(nr. incidents per 10,000 connections)

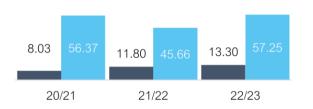


Due to the density of the infrastructure in London, heavy rainfall impacts this metric in our capital more than in TVHC.

Last year, London was abnormally affected by the London Flooding event of July 2021.

#### Pollution incidents

(nr. of incidents per 10,000km)

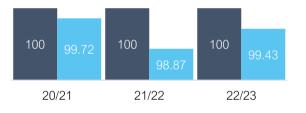


London has fewer pollution incidents as there are not as many routes for potential pollutions to access a watercourse.

The disparity between the regions is magnified further by the greater sewer lengths in London compared with TVHC.

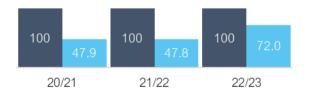
### Treatment works compliance

(%)



Both our treatment works compliance failures this calendar year were in the TVHC.

#### Risk of severe restrictions in a drought (% FD consistent calculation)



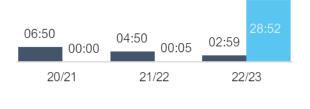
The SWOX area of the TVHC is in supplydemand deficit under 1 in 200 drought conditions, while all other Water Resource Zones ("WRZs") are in surplus.

#### Risk of sewer flooding in a storm (%)

| 5.49  | 19.83 | 5.49  | 19.83 | 5.49  | 19.83 |
|-------|-------|-------|-------|-------|-------|
| 20/21 |       | 21/22 |       | 22/23 |       |

Because of the way this measure is calculated, the risk of sewer flooding in a storm is significantly higher in Thames Valley than in London.

#### Responding to major trunk mains bursts (mm:ss)



The majority of our trunk mains are contained within the London supply area. However, in 2022/23, the severity of the Oxford event, has skewed the metric.

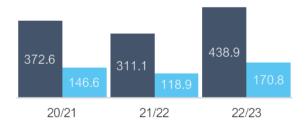
Of the 19 incidents contributing to the overall measure, eight were in Thames Valley with the remaining eleven in London.

#### Sewer collapses (nr.)

| 5.32  | 3.11 | 4.84  | 3.11 | 4.70  | 2.81 |
|-------|------|-------|------|-------|------|
| 20/21 |      | 21/22 |      | 22/23 |      |

Approximately 85% of sewer collapses happen in TVHC. However, we have seen an overall improvement in performance in both regions.

#### Mains repairs (per Km)

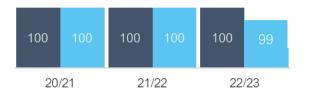


Bursts are more frequent in London as a significant number of old cast iron mains are over 100 years old.

Some areas in London have soil conditions that are highly corrosive to iron mains and/or highly shrinkable, making it more susceptible to movement through changes in conditions.

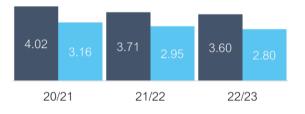
The increased traffic in London also has an impact on pipes due to forces created by increased tonnage, braking and acceleration.

#### Security of supply index (Score)



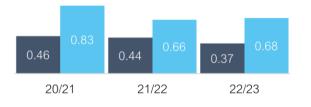
All WRZ across London are in surplus under both annual average conditions and critical period conditions. The only one of our six WRZ not in surplus is SWOX. This reflects the same critical factors as PCC.

#### Empty household properties (void properties) (%)



We have more empty properties in London, reflecting the higher levels of customer transiency in the capital and the greater density of flats, which have presented access difficulties over the last couple of years.

#### Acceptability of water to consumers (nr.)



The biggest cause of contacts is the appearance of water. Contacts about illness generate the smallest volumes. There are no obvious reasons for the difference between the regions.



# Our regulatory statements

#### Table of statements and disclosures

The following section contains the statements we are required to make under the terms of our licence conditions and the statutory requirements set out in the Water Industry Act 1991.

This table tells you where you can find this information in our 2022/23 submissions:

| Disclosure requirement  | Chapter where it can be found  | Ref           |
|---|--|---------------|
| Accounting methodology summary  | <u>https://www.thameswater.co.uk/about-</u><br><u>us/investors/our-results</u> | RAG 3         |
| Accounting policy note for price control units  | Section 1, Regulatory Financial Reporting –<br>Accounting Policies             | RAG 3         |
| Adherence to assurance<br>requirements in performance<br>commitment definitions               | Our Regulatory Statements  | IN 23/03      |
| Audit and assurance reports x2  | Auditors' and assurance reports, page 154 and page 170                         | RAG 3         |
| Board leadership. transparency and governance principles - annual reporting                   | Our Regulatory statements - Risk and Compliance Statement                      | Principles 49 |
| Board statement on accuracy and completeness of data and information                          | Our Regulatory statements - Risk and Compliance statement                      | RAG 3         |
| Common performance commitments compliance with Ofwat's guidance                               | Reporting Criteria, Appendix 1   | IN 23/03      |
| Compliance with sanctions against<br>Russia and Belarus related to the<br>conflict in Ukraine | Our Regulatory statements  | IN 22/01      |
| Excel version of APR tables on website  | https://www.thameswater.co.uk/about-<br>us/investors/our-results               | IN 23/03      |
| Long term viability statement   | RAG statements and disclosures, with further information in the Annual Report  | RAG 3         |
| Narrative disclosure: analysis of debt  | Section 1, Regulatory Financial Reporting –<br>Table 1E                        | RAG 3         |
| Narrative disclosure: common performance commitments  | Our 2022/23 performance  | RAG 3         |

<sup>49</sup> Board leadership, transparency and governance- principles (Ofwat January 2019).

| Disclosure requirement                                   | Chapter where it can be found  | Ref     |
|--|--|---------|
| Narrative disclosure: costs                              | Throughout this report   | RAG 3   |
| Narrative disclosure: current tax analysis               | Section 1, Regulatory Financial Reporting –<br>Accounting Policies             | RAG 3   |
| Narrative disclosure: current tax reconciliation         | Section 1, Regulatory Financial Reporting –<br>Accounting Policies             | RAG 3   |
| Narrative disclosure: financial flows                    | Section 1, Regulatory Financial Reporting –<br>Table 1F                        | RAG 3   |
| Narrative disclosure: interest                           | RAG statements and disclosures   | RAG 3   |
| Narrative disclosure: outcomes                           | Our 2022/23 Performance  | RAG 3   |
| Narrative disclosure: retail                             | Section 2, Price review and other segmental reporting - Table 2C.              | RAG 3   |
| Narrative disclosure: return on regulatory equity        | Section 1, Regulatory Financial Reporting –<br>Table 1F                        | RAG 3   |
| Narrative disclosure: social tariffs                     | Section 2, Price review and other segmental reporting - Table 2N               | RAG 3   |
| Narrative disclosure: supply demand balance and metering | Section 6, Additional regulatory information -<br>water network plus -Table 6D | RAG 3   |
| Narrative disclosure: totex                              | Section 4, Additional regulatory information -<br>service level- Table 4C      | RAG 3   |
| Narrative disclosure: wholesale revenues                 | Section 2, Price review and other segmental reporting -Table 2M,               | RAG 3   |
| Note on bad debt policy                                  | Section 1, Regulatory Financial Reporting –<br>Accounting policies             | RAG 3   |
| Note on capitalisation policy                            | Section 1, Regulatory Financial Reporting –<br>Accounting policies             | RAG 3   |
| Note on revenue recognition                              | Section 1, Regulatory Financial Reporting –<br>Accounting policies             | RAG 3   |
| Our approach to open data                                | Our Regulatory statements  | H2Open  |
| Protected land sales under Condition K                   | N/A  | IN23/03 |

| Disclosure requirement  | Chapter where it can be found   | Ref      |
|---|---|----------|
| Reporting Criteria  | https://www.thameswater.co.uk/about-<br>us/investors/our-results              |          |
| Ring-fencing certificate  | Our regulatory statements - Directors' Ring-<br>Fencing Certificate           | RAG 3    |
| Risk and compliance statement   | Our regulatory statements - Risk and Compliance Statement                     | IN23/03  |
| Statement as to disclosure of information to auditors;                              | RAG statements and disclosures  | RAG 3    |
| Statement explaining out/under<br>performance of the return on<br>regulatory equity | Section 1, Regulatory Financial Reporting –<br>Table 1F                       | RAG 3    |
| Statement explaining the variance on infrastructure network reinforcement charges;  | RAG statements and disclosures  | RAG 3    |
| Statement on differences between statutory and RAG definitions;                     | RAG statements and disclosures  | RAG 3    |
| Statement on dividend policy and explanations of dividends paid                     | RAG statements and disclosures  | RAG 3    |
| Statement on executive pay and performance;   | RAG statements and disclosures, with further information in the Annual Report | RAG 3    |
| Statement on innovation competition.  | RAG statements and disclosures  | RAG 3    |
| Tax strategy for the appointed business   | RAG statements and disclosures  | RAG 3    |
| Transfer pricing disclosures  | RAG statements and disclosures  | RAG 3    |
| Transactions with associates and the non-appointed business (principles)            | RAG statements and disclosures  | RAG 5    |
| Water efficiency campaigns included in PCC commentary                               | Our 2022/23 performance: PCC  | IN 23/03 |
| Water supply interruptions-<br>restatement for updated definition                   | Our 2022/23 performance: supply interruptions                                 | IN 23/03 |

# Adherence to assurance requirements set out in performance commitment definitions

Our Final Determination ("FD") prescribes assurance that we must obtain to meet some of our PC requirements.

| PC   | Assurance obtained for 2022/23   |
|--|--|
| Smarter Water Catchments<br>EWS02                  | Engagement of independent third-party auditor to execute agreed<br>upon procedures for this metric under "ISRS 4400 (Revised),<br>Agreed-Upon Procedures Engagements" and where necessary the<br>results of those procedures have been reflected in our reporting. |
| Renewable energy<br>produced<br><sup>EWS03</sup>   | This metric is derived from an industry standard tool, carbon accounting workbook.   |
|  | Additionally, the renewables obligations certificates ("ROCs") are approved by Ofgem each month.   |
|  | Engagement of independent third party auditor to execute agreed<br>upon procedures for this metric under "ISRS 4400 (Revised),<br>Agreed-Upon Procedures Engagements" and where necessary the<br>results of those procedures have been reflected in our reporting. |
| Natural capital<br>accounting<br>EWS04             | Although not a FD definition requirement, we appointed WSP to perform a natural capital assessment for 100% of Thames Water's land holdings.   |
| Unregistered household                             | None.  |
| properties<br>ER01                                 | As we have not met our target for this metric in 2022/23, we have not obtained external third party assurance.   |
| Surface water management                           | The ISAE 3000 independent limited assurance report received from third-party, PwC, covers this metric.   |
| SEMD<br>DWS02/DWS03                                | Externally assured as part of the annual SEMD submission to Defra.   |
| Proactive customer                                 | None.  |
| engagement<br>AWS02                                | This report will be published and assured later in the AMP.  |
| Power resilience                                   | Due to a wider business reprioritisation this programme has been<br>halted so we have not delivered anything against this commitment<br>this year. Additional assurance is therefore not required.   |
| Critical asset readiness for                       | None.  |
| the London Tideway<br>Tunnels<br><sup>ET04</sup>   | This PC does not have a target for this year.  |
| Maximising the value of                            |  |
| Maximising the value of Tideway project land sales | None.  |

| PC   | Assurance obtained for 2022/23   |
|--|--|
| Empty Business Properties<br>EWS08         | Engagement of independent third-party auditor to execute agreed<br>upon procedures for this metric under "ISRS 4400 (Revised),<br>Agreed-Upon Procedures Engagements" and where necessary the<br>results of those procedures have been reflected in our reporting. |
| Counters Creek<br>CC                       | This PC does not have a target this year.  |
|  | This will be obtained when the company publish a full report on its understanding of the risk in APR24.  |
| WINEP<br>ES02                              | The company secures confirmation from the EA that performance has been correctly reported.   |
|  | This year, we have included four measures submitted to, but not yet<br>approved by, the EA (although we are satisfied that they meet the<br>approval criteria).  |
| Enhancing Biodiversity<br>EWS01            | While we continue to support nature recovery, the budget related to<br>the delivery of this performance commitment has been removed as<br>we prioritise other deliverables.  |
|  | While no independent third party assurance has been sought, this PC has been assured by our Risk, Audit and Assurance team.  |
| Delivery of WINEP<br>requirements<br>NEP01 | Same assurance process as for ES02.  |

## Directors' Ring-fencing Certificate under Condition P of the Company's instrument of appointment

This is to certify that at their meeting on 7 July 2023, the Directors of Thames Water Utilities Limited ("the Appointee") resolved that, in their opinion, for at least the next 12 months and with specific regard to the material issues or circumstances disclosed in the table of factors below:

- The Appointee will have available to it sufficient:
  - financial resources and facilities;
  - management resources;
  - systems of planning and internal control; and
  - rights and resources other than financial resources:

enabling it to carry out the Regulated Activities necessary to fulfil the Appointee's obligations under the Instrument of Appointment without being dependent upon the discharge by another person of any obligation under, or arising from, any agreement or arrangement under which that other person has agreed to provide any services to the Appointee in its capacity as a Relevant Undertaker.

 The Appointee will ensure that, as far as reasonably practicable, it has available to it sufficient rights and resources other than financial resources, so that if, at any time, a special administration order were to be made in relation to it, the special administrator would be able to manage the affairs, business and property of the Appointee in accordance with the purposes of the special administration order. The Appointee notes that it is working to secure additional shareholder funding but is making prudent preparation should this not occur or be sufficient.

- All contracts entered into between the Appointee and any Associated Company include the necessary provisions and requirements in respect of the standard of service to be supplied to the Appointee, to ensure that it is able to carry out the Regulated Activities; and
- Any issues or circumstances that may materially affect the Appointee's ability to carry out its Regulated Activities are noted below and/or within the Risk and Compliance Statement on page 88.

This Ring-fencing Certificate is an annual requirement under Condition P of the Instrument of Appointment (also known as the 'Licence').

The Board notes that the latest Ofwat guidance set out in IN20/01 for completion of the Ring-fencing Certificate requires the Board to state its opinion on whether the Appointee has 'sufficient' resources to deliver its regulated activities for at least the next 12 months. Condition P of our Licence requires that we have 'adequate' resources in place. The Board is satisfied that its stated opinion set out above regarding the sufficiency of the Appointee's resources also addresses its Licence obligation to maintain 'adequate' resources.

The Licence also requires a statement of the main factors which the Board has taken into account in giving its opinion for the Ring-fencing Certificate.

In providing this opinion, the Directors have considered several factors as part of their enquiries prior to signing this certificate, including but not limited to:

#### 1. Financial resources and facilities

- The Appointee's Final Determination for the 2020 to 2025 regulatory period, accepted by the Company in February 2020. See section on 'material issues or circumstances' below for further discussion and latest position;
- The Appointee's available cash resources and borrowing facilities of

c.£4.4 billion (at 31 March 2023), which includes significant undrawn bank facilities and taking into account the Appointee's projected net cash flow for the next 12 months from the date of signing the Ring-fencing Certificate;

- The Appointee's investment grade ratings, as shown on page 188 of this report which retain at least one full notch headroom over minimum investment grade;
- The Appointee's compliance with its financial covenants as disclosed in our Annual Report;
- The Appointee's dividend policy and that it does not impair the Appointee's ability to finance the Appointed Business and takes into account the impact on all stakeholders and having regard to the need to continue to attract equity capital and to ensure compliance with the updated dividend policy and payment requirements of its Licence and associated Ofwat guidance (with updates effective May and June 2023 respectively);
- The preparation of the Appointee's statutory accounts on a going concern basis and its long-term viability as disclosed on page 106 of this report and in our Annual Report;
- The provision of £500 million of shareholder funding by the shareholders in March 2023;
- The engagement between Appointee and its shareholders regarding the provision of further shareholder funding and equity investment and the discussions between the Appointee (with shareholder input) and Ofwat regarding the Appointee's regulatory arrangements;
- Shareholders' commitment to fund £750 million of additional shareholder funding to be drawn during AMP 7 if certain conditions are met and undertaking to hold investment committee meetings in respect of

such additional shareholder funding, if certain milestone conditions are met; and subject to approval, to negotiate in good faith commitment letters: and

- That its shareholders acknowledge that the turnaround of the Appointee will continue into AMP 8 and that the development and delivery of the business plan for the period to 2030 that the Appointee will prepare and submit to Ofwat to achieve a regulatory determination that supports the turnaround will require the provision for further equity investment significantly in excess of the current shareholder commitment to improve operational performance and financial resilience. Indicatively, this is expected to be in the region of £2.5 billion, but the nature and amount of such medium-term support will depend on finalisation of the business plan and the regulatory framework that will apply to the AMP8 period.
- See section on 'material issues or circumstances' below for further discussion and the latest position in relation to shareholder funding.

#### 2. Management resources

- The Appointee's People Strategy and People Plans which aim to ensure that the Appointee has continued access, having regard to current labour market challenges in respect of recruitment and retention, to personnel which will enable it to deliver its regulatory obligations. In particular:
  - The Appointee's leadership and organisational structure, operating model and human resources (succession) planning strategy;
  - The Appointee's ongoing process to streamline and simplify its organisational design, taking opportunities to improve efficiency and effectiveness while mitigating risk to service delivery during the change process;

- The Appointee's learning and development programme and culture enables its people to gain skills appropriate to their roles;
- The Appointee's recruitment, reward and recognition strategy to attract high calibre candidates and retain employees with appropriate skills and experience; and
- The Appointee's ongoing commitment to diversity and inclusion enables attraction and retention of diverse talent and allows it to harness the unique skills, experiences and backgrounds that each individual brings - for more detail see our Annual Report.
- The Appointee's confirmation, as shown in our Annual Report and Sustainability Report, of how it seeks to meet the Board leadership, transparency and governance objectives set out in its Instrument of Appointment. This includes:
- The independence of the Appointee's Board from management; and
- Continued review of its Board committees, their scope and composition.
- The Appointee's comprehensive programme of Board and Executive meetings supported by appropriate reports and information to enable high quality decision making.

#### 3. Systems of planning and internal control

- The Appointee's corporate risk register, enterprise risk management and assurance process, which reviews, monitors and reports on exposure to, and mitigating controls over, risks and uncertainties as disclosed in our Annual Report;
- The Appointee's performance in respect of its Performance Commitments as disclosed in tables 3A-E on page 161 to page 165 of this report and made reference to in the

Risk and Compliance Statement on page 92;

- The Appointee's generation and use of relevant, quality information in support of the functioning of internal control;
- The Appointee's business continuity planning process, including plans for loss of people (including to address loss of skilled resource risk), corporate sites, systems (including cyber security and power resilience) and supply chain;
- The Appointee's incident management processes in place which include incident command structure, defined roles and responsibilities, a dedicated customer incident response team and hazard briefs. These arrangements are supported by incident management training, audits, learning and an Executive-led incident management and business resilience committee. See section on 'material issues or circumstances' below for further discussion on how the Appointee has responded to, and learned from the 2018 'Beast from the East' and London flooding events in the summer of 2021 during which customers experienced unacceptable levels of service;
- Improving river health and reducing pollutions is a key priority for the Appointee. Thames Water has been clear that any sewage pollution is unacceptable, no matter what the circumstances. Making the necessary changes will take time and collaborative working to achieve;
- The Appointee's Pollution Incident Reduction Plan (PIRP) is a key component of the River Health Plan to enable delivery of this priority. Steps include the installation of additional sewer monitors, impact of weather studies and focus on combined sewer overflows (CSO) on the network and discharges from sewage treatment

works. The Appointee also published its first 25-year Drainage and Wastewater Management Plan (DWMP) in May 2023 for a resilient and sustainable wastewater service that is fit for the future. See section on 'material issues or circumstances' below for further discussion on the Appointee's potential non-compliance with its environmental permits;

- The Appointee's commitment to integrity and ethical values. Its policies to prevent fraud and other unethical behaviour, mandatory training for employees on ethical behaviours (94.5% compliance rate as at the end of April 2023) and an anonymous whistleblowing hotline which has been supported by a proactive campaign to raise awareness; and
- The Appointee's ability to meet its legal obligations and its processes to comply with UK sanctions legislation. Legally binding undertakings, commitments and other actions in progress to address historic and current exceptions to this relating to leakage, smart metering, and nonhousehold market data together with work to address potential noncompliance with environmental permits are set out in the material issues or circumstances section below.

## 4. Rights and resources other than financial resources

The Appointee's purpose, strategy, values and behaviours, which set the 'tone from the top' and a clear direction for everyone across the business for the 2020 to 2025 regulatory period, and its development of policies including health and safety. The Appointee's Board engaged on the development of each component and how they align as Thames Water's 'big picture' to inspire employees and drive the right outcomes. Culture

transformation, driven by a specific focus on our values and behaviours. is an integral part of the turnaround plan. The values and behaviours have been defined and launched through companywide 'Living Our Values' events. A new guidance document called 'The Way We Work' sets out for employees the Appointee's values and how everyone should live them. It auides people to do the right thing. make decisions and what to do if things go wrong. Values and behaviours are also an integral part of performance assessment and assessment of potential:

- The Appointee's digital strategy and design principles are supporting transformation of IT performance and resilience - including significant investment in modernisation of underlying infrastructure. This is underpinned by IT policies which seek to ensure the operation and security of the technology assets essential to service provision. The risk of cyberattack is increasing as a result of the wider geopolitical climate. Through its dedicated cyber security programme the Appointee continues to improve its cyber security controls and to invest in its cyber defences, strengthen its IT capability and enhance its respond and recover capabilities;
- The Appointee's ability to be resilient by anticipating, coping with, recovering from and learning from disruptive events in order to maintain and improve quality of services for its customers and protecting the natural environment both now and in the future;
- The Appointee's integrated planning systems and development of a systems thinking approach;
- The Appointee's asset maintenance policies, systems, data analytics and modelling to monitor asset health, which are enabling it to act with

intelligence using data from customers, operations and the environment, to make accurate and proactive business decisions that improve productivity, help to manage risk of asset deterioration and to improve the service that it provides to its customers; and

• The Appointee's insurance programmes, including terms, counterparties and cover limits, which have been reviewed by an independent insurance adviser and approved by the Board.

#### 5. Contracting

- The Appointee's procurement and supplier management arrangements are appropriate for the Appointee to meet its regulatory requirements. These are enabled through a suite of contracts and supply arrangements for third party goods and services which enable the organisation to operate effectively;
- Transactions between the Appointed Business and any Associated Company being at arm's length, as made reference to in this report within the Regulatory Statements (relating to RAG5) and related party disclosures on page108;
- The Appointee neither gives nor receives any cross-subsidy from any other business or activity; and
- The Appointee has no agreements or other legal instruments incorporating a Cross-Default Obligation without Ofwat approval.

#### 6. Material issues or circumstances

#### Turnaround plan

In accepting the Final Determination ("FD") for the 2020 to 2025 regulatory period the Appointee said that it did not necessarily expect to be able to operate within the cost and service thresholds set out in the FD. The Appointee's central expectation was that it would incur net overspends and net penalties. In accepting, the Appointee's Board did so fully understanding the challenge presented by the FD (including regard to externally assured financial forecasting of key metrics and likely impact on covenants and credit ratings) and the support provided at that time by the shareholders in making its decisions.

The Board recognises that the position has deteriorated further with significant forecast performance penalties and costs beyond those anticipated when the FD was accepted including significant inflationary headwinds in core areas of expenditure (including labour, energy prices and chemicals). In addition, the Appointee is currently underperforming against customer expectations and Ofwat has assessed the Appointee as 'lagging behind' compared to some of the other water companies in the sector. This is why, in March 2021, the Board and Executive developed a turnaround plan to transform the performance of the Appointee through 'fixing the basics', 'raising the bar' and 'shaping the future'. The plan's initial focus is on health and safety risk reduction and the reduction of compliance risk associated with the Appointee's regulatory obligations as highlighted within this Certificate over the remainder of AMP7.

The Appointee has built on the foundations laid in 2021/22 and made good progress on 'fixing the basics' in 2022/23. This has included £500 million of funding from shareholders, delivery of a record level of investment by insourcing capital delivery, insourcing asset maintenance activity, surpassing the target for the number of meter installs, reducing complaints volumes and bringing back onshore and inhouse our customer contact agents, and supporting customers through the cost of living crisis with £50 million of social tariff support.

Nevertheless, the Appointee has faced several unexpected challenges over the period, again impacted by weather events with a record drought and freeze / thaw event affecting progress on water metrics, including a risk to water quality (CRI), leakage and pollutions performance. These impacts have been exacerbated by the Appointee's asset health deficit, which has accumulated over decades. High inflation and the consequential decline in real wages (the cost of living crisis) has also materially impacted financial performance causing significant financial strain on the Company.

The Appointee is clear that there is a considerable lag between investment and performance improvements with large programmes of work spanning multiple years which will take time to reap the benefits. Until the end of AMP7 the turnaround plan remains focussed on fixing the basics and improving operational grip to be able to stabilise and improve performance in AMP8. To this end, on 11 April 2023 the Appointee published its performance improvement action plan which sets out the core steps it is taking to deliver improved outcomes against several key common performance commitments. The Appointee is seeking an external review of the turnaround plan and will consider revisions as appropriate.

## Additional shareholder funding and equity investment

The Board notes that in June 2022 the Appointee, the Board of Kemble Water Holdings Limited and the Appointee's shareholders approved a business plan for the remainder of this AMP which assumed £1.5 billion of shareholder funding to, amongst other things, accelerate compliance spending, invest in improving operational performance and increase financial resilience.

Since June 2022 the TWUL executive team has developed a revised internal business plan for the remainder of this AMP which assumes an aggregate of £1.25 billion of shareholder funding, which has been approved by the Board for the purposes of year-end reporting and delivery of this Ringfencing Certificate. This revised business plan reflects rephasing and other initiatives which offset inflation in the period such that total expenditure is in line with the June 2022 business plan, with the Appointee prioritising expenditure in areas that deliver most benefit for customers, communities and the environment. The priorities have been shaped by the Appointee's engineering and design capacity, the maturity of available technology and overarching financial discipline.

The updates to the June 2022 business plan have been discussed with its shareholders for the purposes of year end reporting and the TWUL executive team is progressing a further iteration of the business plan for the period to 2030, including additional diligence and modelling in relation to asset health within the business which is expected to be a material factor in finalising the business plan.

To support the Appointee in the delivery of its turnaround, its shareholders provided £500 million in shareholder funding (the "Initial Shareholder Funding") in March 2023. The Appointee and its shareholders are currently engaged in a collaborative process to agree on and to facilitate the making of additional commitments to fund the additional £750 million assumed in the Appointee's internal business plan (the "Additional Shareholder Funding") and to acknowledge the possibility of further equity investment in the medium-term significantly in excess of the current shareholder commitment. Indicatively, this is expected to be in the region of £2.5 billion, but the nature and amount of such medium-term support will depend on finalisation of the business plan and the regulatory framework that will apply to the AMP8 period. In addition, the Appointee (with shareholder input) is in discussions with Ofwat regarding the Appointee's regulatory arrangements.

The Appointee's shareholders have evidenced their support for the Appointee through a Support Letter in July 2023 (which replaces that from June 2022), where its shareholders committed to fund the Additional Shareholder Funding if certain conditions are met (and have undertaken to hold investment committee meetings in respect of the Additional Shareholder Funding if certain milestone conditions are met and subject to approval, negotiate in good faith commitment letters), including:

- investment committee approval by each shareholder on a several basis, not a joint and several basis;
- satisfactory regulatory arrangements being agreed, business plan finalisation, no lock-up, trigger event or event of default under the Company's financings, ratings requirements aligned to the cash lock-up requirements in the Appointee's licence and execution of definitive finance documentation; and
- no insolvency, special administration, change to position in the ring-fencing certificate, nationalisation or shareholder funding illegality.

The Directors considered that the Initial Shareholder Funding already provided in March 2023, discussions between Ofwat and the Appointee in connection with the Appointee's engagement with its shareholders during March to July 2023, the Support Letter, a letter from Kemble Water Holdings Limited to the Board in July 2023 and the process which is ongoing to facilitate commitment letters in respect of the Additional Shareholder Funding provided sufficient comfort at this time for the Board to consider that sufficient resources are or would be available to progress its business plan.

However, there is no certainty that the Additional Shareholder Funding will be forthcoming and the provision of funds, including in respect of raising funds through the issuance of further shareholder funding and equity investment, could be vetoed by a shareholder or shareholders under the governance arrangements between the shareholders. The Board will carefully monitor on a regular basis progress towards achieving Additional Shareholder Funding and satisfaction of the conditions for this and keep under review pathways to ensure the Company's continued financial resilience.

The Directors noted that in the scenario where the Additional Shareholder Funding was not forthcoming, the Appointee would consider all options available at that time and could revise its business plan to fit with then available funding, and adjust total expenditure down accordingly.

Implementing a revised business plan would deliver less for customers, communities and the environment and, at that time, may result in the Appointee not having available to it sufficient financial resources and facilities to enable it to fund the Regulated Activities necessary to fulfil in full the Appointee's obligations under the Instrument of Appointment. In addition, TWUL may face credit rating agency downgrades and accordingly its access to the debt capital markets (in particular via its holding company Kemble Water Finance Limited) may be significantly constrained.

The Directors recognise that should they become aware of any circumstances which would change their opinion on the matters considered in this certificate, or other matters, such that they would not give the opinion contained in this certificate or which would materially affect the Appointee's ability to carry out its regulated activities, the Appointee must inform Ofwat of this.

#### Leakage

The Appointee reduced leakage by 10.7% in 2022/23 using a 3-year average from the 2019/20 baseline, which was below its target reduction of 14.1%.

Underperformance was driven by last year's weather conditions, in particular the prolonged hot and dry summer which created an unprecedented soil moisture deficit causing its pipes and its customers' pipes to move and crack leading to an increase in leakage. The Appointee estimates that this event increased its leakage position by at least 10%. In addition, the UK experienced a prolonged period of low temperatures between 8 and 17 December 2022. On 12 December, the UK average maximum temperature was zero degrees with the 12 and 13 December the UK's coldest days since 28 February and 1 March 2018 (the 'Beast from the East'). Daily minimum temperatures fell widely to between -5 degrees Celsius and -10 degrees across the UK on several

nights. Temperatures then rose significantly, between 17 and 18 December, with increases of over 17 degrees Celsius within 24 hours.

The rapid thaw that followed heavily impacted leakage performance and led to a significant visible leak outbreak. Notwithstanding this, having taken learning from the winter event of 2018, we redesigned how we respond to major incidents and, consequently, customers experienced less than 10% of the supply interruptions experienced in 2018.

The Appointee is making transformational changes to the way that it works but it is mindful that as annual leakage targets are based on a 3-year rolling average, the impact of this year will be felt, not just this year, but for the next two years' performance. Notwithstanding this, the Appointee remains committed to doing all that is reasonably practicable to achieve its regulatory AMP target to reduce leakage by 20.5%. In 2022/23 the Appointee fixed a total of 66,896 leaks (compared with 61,671 in 2021/22). This equates to one leak being fixed almost every 7 minutes 45 seconds.

To help achieve this the Appointee has enhanced its recovery plan developed in summer 2022 into a 'Leakage Transformation Plan' which will build solid foundations for the ambitious and sustainable leakage reductions needed over the coming years. The plan is focused on a data driven approach to better understand unmeasured consumption which will help to reduce leakage on its supply pipes and also help customers manage leaks on their premises. It will also continue to build on existing technology partnerships to support its plan and continue to install smart water meters to track water usage and drive the improvements that are required.

In January 2021 Ofwat confirmed that no specific actions remain outstanding for six of the undertakings under Section 19 of the Water Industry Act. The Appointee also delivered its continuing commitments under Section 19 and will continue to develop and build on these activities to improve the management and delivery of its AMP7 leakage reduction targets, including:

- Regular leakage performance updates on its website with the ability for customers to leave feedback; and
- Regular updates to its stakeholders and direct engagement with customers.

The Appointee has delivered its Leakage Reporting and Insight Improvement Programme (LRIIP), which had been established to address issues regarding leakage reporting to improve assurance checks and processes, and which now provides the insight required to effectively deliver improved leakage performance expected by its customers and stakeholders.

#### Commitments relating to smart metering

The Appointee believes that it has delivered on its formal commitments in relation to the provision of access to smart meters and digital data services following an Ofwat investigation into compliance with the Competition Act 1998 and is working with Ofwat to confirm that the overarching commitments have been completed to its satisfaction.

#### Undertakings relating to data accuracy

The Appointee believes that it has delivered the formal undertakings accepted by Ofwat on 6 December 2021 under Section 19 of the Water Industry Act 1991 regarding data accuracy in the non-household market to secure compliance with Condition P of its Licence and its obligations under the Wholesale Retail Code and is working with Ofwat to confirm that the overarching undertakings have been completed to its satisfaction.

#### London flooding events

In the Appointee's response to David Black's letter on 26 October 2021 related to the extreme (nearly 1-in-200 year) flooding events in London it recognised that it failed to meet customers' expectations and the levels of service they received was unacceptable. The final (stage 4) report by the independent London Flood Review ('LFR') was issued on 12 July 2022 and found that the intensity of the storm was well beyond the design capacity of the Appointee's systems and that its systems generally performed well, considering the magnitude of the event. The review made 28 recommendations, 25 of which are beyond the direct control of the Appointee as they either require collective action or are for others to lead.

The London Surface Water Strategic Group ('LSWSG'), a high-level, multi-agency partnership of the key surface water flood risk management agencies, including the GLA, TfL, London Boroughs, the EA and Thames Water, has been formed with the aim of driving collaboration between the partners on managing surface water in London. The LSWSG will also lead the development and delivery of a London-level surface water management strategy and associated action plans. The work programme for the LSWSG and the scope of the strategy has been informed by the recommendations of the LFR and other reviews on the July 2021 floods. The Appointee will track and report annually on the delivery of the LFR's recommendations, including those delivered by external parties and directly by the Appointee.

#### Drought

Following the drought of last summer, the Appointee's overall water resources position has continued to improve and Thames Water is currently operating at DEL-0 (the lowest risk level). The Appointee is continuing to monitor the situation closely taking a cautious approach and continuing to review and improve its preparedness ahead of this summer following the completion of a detailed lessons learnt review after the summer 2022 drought. 70% of the actions from the lessons learnt review have been completed. The remainder have clear owners and accountabilities and are being tracked by the executive. Asset improvement work to recommission the Gateway water treatment (desalination) plant is now complete and following recent deliveries of carbon

dioxide, commissioning of the remineralisation process started on 29 June 2023. Subject to the successful completion of the activities needed to bring the plant back online we expect to put water into supply in late July. The Appointee's water resources position remains healthy, and it will be running the plant at a low level to provide data that will support its future use. It should be noted that the carbon dioxide supply chain remains fragile and continued operation of the plant is entirely dependent of securing an ongoing regular and secure supply of the carbon dioxide that is essential to its operation. Notwithstanding this, the third-party delay to required approvals under the Water Supply (Water Quality) Regulations of the new reverse osmosis membranes will potentially limit the site to a maximum of 50MI/d throughout 2023 and summer 2024.

#### Flow to full treatment permit conditions

The Appointee is at risk of non-compliance with flow to full treatment permit requirements at a number of its wastewater treatment sites. It has produced a Wastewater Asset Assurance Programme ('WAAP'), which includes significant investment in flow monitoring to enable it to better understand the potential risk of noncompliance at each site. Delivery of that plan and any associated corrective actions at sites would reduce the number of sites at potential risk of non-compliance by around half by the end of AMP7, with the remainder to be addressed in AMP8. The WAAP is part of the business plan for the remainder of AMP7 that has been approved by the TWUL Board, as referred to above. The Board has confidence that this plan will address the risks of non-compliance identified and will closely monitor progress, adjusting the plan as necessary to ensure that it remains appropriate for reducing TWUL's potential compliance risk.

As part of its turnaround plan the Appointee is also enhancing its internal governance. This includes enhancing its approach to environmental compliance risks to further strengthen the line of sight of its environmental permit compliance risks through the Executive Risk Committee, into the Audit, Risk and Reporting Committee (ARRC) and ultimately its Board.

The Appointee remains under investigation by the EA with regard to its compliance with these environmental permits and by Ofwat with regard to its compliance with Section 94 of the Water Industry Act and certain conditions of its Instrument of Appointment. The Appointee is also one of several companies subject to a pending Competition Appeal Tribunal class action by Leigh Day regarding reporting of pollution incidents at wastewater treatment works.

#### WINEP programme

The Appointee's business plan for the remainder of AMP7, as approved by the TWUL Board and referred to above, will enable substantial delivery of its WINEP programme for AMP7 to reduce compliance risk with regard to its environmental permits and other obligations. There are deliverability constraints associated with the entirety of the WINEP in AMP7, which means that a number of schemes will now be delivered in AMP8. Final planning is taking place to determine the individual projects that will be impacted, after which discussions with regulators will take place.

#### Asset resilience risk

The Appointee is committed to improving the management of asset resilience risk, to avoid asset failure and to avoid increasing its asset health deficit.

Following development of an asset strategy aligned to its long-term vision and design of a new operating model, the Appointee has continued to develop its management systems and bring further capability back inhouse. The Appointee is managing its asset risk through investment and higher operating expenditure in AMP7. In addition, the Appointee is investing a further £700 million to address asset performance and integrity issues through the London Water Improvement ('LWI') Conditional Allowance (which was approved by Ofwat in November 2022). This will see the Appointee undertake works including the replacement of 112km of distribution mains and seven large trunk mains in London. The Appointee is also progressing the development of its Water Supply System Resilience Programme ('WSSRP') which it intends to submit to Ofwat on 28 July 2023 for approval. If approved, this will fund major asset resilience improvements at two of its largest water treatment works in London -Coppermills and Hampton.

In the last year the executive has been undertaking an internal assessment of the Appointee's position on asset health, led by our Engineering and Asset Director. This top-down assessment of our assets builds on an industry-standardised asset deterioration approach and models used at PR09 and PR14. This review will be finalised in the Autumn of 2023 and will enable the Appointee to factor in the costs associated with renewing its assets over the coming decades into its PR24 business plan submission. It is currently estimated that the cost to the Appointee of managing its notional asset health deficit in AMP7 will be around £1.4 billion (2022/23 prices, equivalent of £1.2 billion (2017/8 prices)), and a further £4.3 billion (2022/23 prices, equivalent of £3.7 billion (2017/8 prices)) to stabilise the position in AMP8. Having an asset health deficit means that it costs more

to operate, repair and maintain assets and to deal with extreme weather, which also has implications for the performance of the business and ODI penalties. Having taken decades to accumulate, it is expected that this will take decades to address.

The executive has focussed in recent months on the collection, organisation and categorisation of materials to provide detailed evidence, including site-specific information that supports the top-down analysis. The executive will secure external assurance on the validity of these figures, so they can be reflected in the Appointee's PR24 submission.

#### SEMD

The external landscape and requirements set out under Security and Emergency Measures Direction ('SEMD') have changed significantly over the last year, with enhanced outcome requirements and guidance, a greater level of regulatory scrutiny and audit, and the establishment of the DWI as the enforcing body (previously this was Defra). As a result, the Appointee's 2023 submission was not only the largest and most comprehensive to date but included a range of positions against different outcomes. In total across an expanded 33 outcomes, four were assessed as 'red'. In response the Appointee has established an SEMD Programme with executive oversight to ensure it identifies and allocates appropriate systems and resources to improving their position. Security is an area of particular focus and risk, containing all four 'red' outcomes.

In addition to this, the Appointee has identified a material risk through its enterprise risk management process relating to changes which take effect in 2025 (beyond the time period of this Certificate), which would more than treble the population for which the Appointee would be required to plan for alternative supplies. This is beyond the Appointee's current capability and plans have been developed that, if funded, will significantly enhance its capability to deliver alternate water supplies to customers. An overview of these has been submitted to the DWI and is currently included in PR24 proposals that will be submitted to Ofwat later in the year.

#### IED

The Appointee supports the objectives of the Industrial Emissions Directive ('IED'). However, it cannot commit to meeting all the requirements set out in the 'Appropriate Measures' guidance (issued in September 2022) by December 2024. The highly prescriptive approach set out in the guidance goes far beyond the original Best Available Techniques requirements to achieve compliance.

The Appointee has concerns regarding the overall value for money for customers of this work, in the context of other planned environmental improvements. The Appointee also notes, given the constraints it faces in terms of what it is able to deliver, it will inevitably need to focus the capacity it has on those things that matter most for its customers and the environment. The resource that would be required to undertake the full scale of the work envisaged by an extensive interpretation of the IED would mean displacing work to be undertaken on other priority areas.

The Appointee's current estimate is that the cost of implementing IED aligned with the 'Appropriate Measures' guidance will be in the region of £480 million of capital expenditure and a £40 million increase in operating expenditure per annum from the start of AMP8. This is a significant change to the assumptions made in 2019 with the EA expecting compliance by December 2024. Detailed work to survey and scope the work needed at each of the 25 Sludge Treatment Centres to comply with the "Appropriate Measures" is at an advanced stage. The work has revealed that the potential construction activity needed is now far more extensive and a programme of this size will need to be delivered over more than one AMP, especially when considering the requirement to maintain overall treatment capacity during construction activity and the wide range of other

infrastructure improvements that will be required in AMP8. During AMP7 we will focus on applying for the appropriate permits, with appropriate operational changes being planned for AMP8. Discussions are needed with the regulator (EA) to develop an appropriate delivery timescale for all aspects of IED.

The constraints on delivering more quickly include the availability of skilled resources and additional capability to manage such a large investment programme, and the ability of the supply chain to ramp up to the rates required. The Appointee and other companies will need to do significant work to create the necessary pathways and recruit the required skilled individuals to support this programme.

#### WRMP

Through Water Resources South East (WRSE), the Appointee is working with the five other water companies in the South East to develop an overarching regional plan addressing future water challenges. Drawing from this regional plan, the Appointee published in December 2022 for consultation its draft Water Resources Management Plan 2024 (dWRMP24) focused on its own supply area, setting out how it will provide a secure water supply for a growing population; protect against the growing risk of drought and water shortages; and improve the environment. Following consultation and review of responses, the Appointee will be publishing its Statement of Response and dWRMP24 by the end of August 2023.

#### Developer services

Following transition to new contractual arrangements in place of its Infrastructure Alliance, the Appointee is experiencing delays to completion of work supporting developers in the Thames Valley and on its major projects portfolio to support new developments. An action plan is being progressed to clear backlogs through full mobilisation of new contracts, recruitment of additional in-house commercial resource and by embedding new ways of working.

In addition to taking all of the above into account, the Directors:

- Procured a 'Review and Recommend' report from PwC, as part of the Directors' Water Industry Act Section 19 Undertaking, to help inform them on their ability to sign the Directors' Ringfencing Certificate set out in the 2022/23 Annual Performance Report;
- Procured a report from PwC, as the Appointee's auditor, stating whether they were aware of any inconsistencies between this Ring-fencing Certificate and the financial statements or any information obtained in the course of their work; see pages 154 to 159 for PwC's audit report on the Annual Performance Report and the PwC report on the Ring-fencing Certificate which has been provided separately to Ofwat; and
- Undertook quarterly reviews and enquiries during 2022/23 of compliance with the Ring-fencing Certificate included in the 2021/22 Annual Performance Report, to assess the appropriateness of the factors, risk exposure and associated disclosures on an ongoing basis.

Therefore, the Directors have resolved that, in their opinion, and with specific regard to the material issues or circumstances disclosed in the list of factors above, the Appointee will have available to it, for at least the next 12 months, sufficient resources to enable it to carry out and meet its regulatory obligations, as set out in the Company's Instrument of Appointment. The Directors will continue to formally monitor the factors quarterly during the coming 12 months.

#### Board approval

This certificate was approved unanimously at the Board meeting on 7 July 2023.

Signed by the Board of Thames Water Utilities Limited:



Ian Marchant Chairman



Alastair Cochran Chief Financial Officer

Nick Land Deputy Chairman and Senior Independent Non-Executive Director



Hannah Nixon Independent Non-Executive



Catherine Lynn Independent Non-Executive



Ian Pearson Independent Non-Executive



Jill Shedden Independent Non-Executive



Guy Lambert Non-Executive



Michael McNicholas Non-Executive



John Holland-Kaye Non-Executive

Our regulatory statements

## Risk and Compliance Statement

#### Introduction

This statement sets out the processes we have in place to demonstrate to our customers, to Ofwat and to our other stakeholders, our compliance with relevant statutory, licence and regulatory obligations, where Ofwat is the relevant enforcement authority. The obligations pertinent to our functions as a statutory Water and Sewerage Undertaker are primarily set down in the Water Industry Act 1991 and our Instrument of Appointment – our "Licence"<sup>50</sup>. The Licence also requires us to perform duties imposed under any other statutory and regulatory guidelines as necessary to fully discharge our obligations.

Our approach to achieving compliance with our statutory, licence and regulatory obligations is based on establishing sound governance, risk management and system of internal controls.

This statement covers the reporting year and is set out in the following sections.

## 1. Understanding and meeting our customers' expectations

We are committed to understanding our customers' needs and expectations and responding to them in our ongoing operations and long-term plans. Our programme of customer engagement is led by our Retail Director and overseen by the Customer Service Committee and, for our long-term planning, the Regulatory Strategy Committee (both sub-committees of our Board).

In order to understand what customers want, we have a customer engagement programme that continuously gathers insights into customers' needs and behaviours. Our insights are gained from working with diverse customer groups, using a wide variety of techniques. This includes bespoke research into specific topics, continuous surveys on brand perception and service satisfaction, analysing complaints and listening to social media.

Customers' overarching expectations are clear:

- A water and wastewater service that 'just works' today and in the future
- Provided at an affordable price and in an environmentally responsible way
- By a company that always has good customer service
- Which gives something back to the society and communities it touches.

Our performance commitments are a response to customer expectations and provide a transparent way of demonstrating the extent to which we are delivering for customers (provided in our performance section of this document). For our household customers, C-MeX is the key measure Ofwat uses to evaluate customer satisfaction and compare water companies (with D-MeX the equivalent measure for developer customers). The C-MeX survey uses small samples and does not give us the depth of insights we need to improve our service, so we also monitor and manage our performance against three internal measures. These are:

a) Service survey customer satisfaction

b) Brand perception survey customer satisfaction and net promotor score ("NPS"), a widely used measure of customer advocacy,

#### c) Complaints.

We are ranked 17<sup>th</sup>, at the bottom of the industry league table for C-MeX performance, and our aim remains to improve our service, move up the table and reduce the gap between us and the industry median. We have begun this journey by focussing on fixing the basics, for example by getting our complaints down and

<sup>&</sup>lt;sup>50</sup> Licences and licensees - Ofwat

responding to them more quickly (complaints performance is summarised in the Section 'About Complaints' in this document). However, there is still much more to do, and this is reflected in our plans to transform our key customer journeys.

Central to our plans is to empower team Thames to deliver exceptional customer service. We have relaunched our values and intend to embed our behaviours throughout our organisation to ensure customers are at the heart of all we do in every role.

Key areas of focus in the last year to meet our customer expectations and drive improvements in customer satisfaction, brand perceptions and complaints include:

## Water and wastewater service that 'just works' today and in the future

- Installed and replaced 113,000 smart meters across London, the Thames Valley and Home Counties to give customers greater control over their water use and bills, and to help us find and fix leaks
- Sustained our extensive sewer cleaning programme (1,600km) and increased the number of sewer depth monitors to over 14,500, which help to proactively detect 390 potential blockages each month
- Ran an 'every drop counts' campaign to help customers save water during the summer 2022 drought, which together with a temporary usage ban, reduced demand by around 10%
- Reorganised ourselves into teams focused on London and Thames Valley & Home Counties to better meet the needs of customers and communities at a local level
- Ran an 'always fixing' campaign that showed our frontline engineers working around the clock to find and fix leaks and ensure our Victorian pipework is fit for the 21st century, as part of our efforts to help build trust and confidence.

## Easy customer experience and tailored support

- Reduced complaints by 28% since last year, after the 44% reduction the year before
- Reduced our complaints response time from 10 to 5 working days for water and wastewater issues, closing around 60% of cases within 3 days
- Recruited over 200 new advisors to bring our billing customer service team completely in-house, so customers always speak to a Thames Water colleague, and we can deliver a better service
- Digitised more of our communications to improve channel choice
- Made our online account management ("OAM") dashboard clearer for customers to understand balances, and past and upcoming payments, and welcomed another 203,000 customers to the service
- Delivered new and improved selfservice tools on our website for submitting a meter read and managing direct debits or payment plans
- Increased the number of people on our priority services register by 74,639 to 365,774.
- Retained our BSI 18477 inclusive services accreditation. Working with partners such as Sense, Kidney Care UK, MIND and Dementia UK, we have improved the accessibility of our website and training material for our people and we have enhanced video relay for deaf customers.

## A thriving environment and part of the community

- Published our Event Duration Monitor map to provide industry leading transparency around our consented storm discharges, as part of our efforts to build trust and improve performance
- Launched our five-year Catchment Partnership support fund ("CaPs") to

support the partnerships which work to improve the water environment for wildlife and people

- Engaged with over 21,000 children through our schools programme on topics such as the water cycle, water treatment and water saving
- Our employees volunteered 3,700 hours in the local community via our Time to Give programme
- Since its completion, 71% of the young unemployed people on our Kickstart programme have found employment, with 54% at Thames Water
- Partnered with Backyard Nature to create a Justice, Equity, Diversity and Inclusion ("JEDI") and microgrants programme, to deliver water and nature-based activities to young people and groups from marginalised communities or who are underrepresented in environmental conservation.

#### Fair and affordable bills

- 306,000 customers now benefit from our social tariff, receiving a 50% discount, a 26% increase
- A trust fund of £500k this year to support customers in hardship
- The first of our payment matching scheme customers, where we match money paid towards water debts to help break the cycle of debt and improve lives, reached the end of their two-year agreement and we cleared their outstanding water debts of £283,000.

#### 2. Processes and the assurances we have in place to achieve compliance with our obligations

The Board is accountable and responsible for the prosperity of Thames Water for the benefit of customers, regulators, investors and other stakeholders. Our Executive develop and deliver our strategy and make day-to-day financial, operational and regulatory decisions. This includes responsibility for maintaining sound systems of planning, risk management, internal control and performance management.

The Board and Executive are provided with a range of information sources and evidence, to enable them to broadly assess our overall compliance with our obligations. This includes the determination of the nature and extent of risk it is willing to take to achieve its strategic objectives, and for ensuring that an appropriate risk culture has been embedded throughout the organisation.

The company reports to its stakeholders primarily through the Annual Report and Sustainability Report, and financial statements. This is where we publish our approach to risk management, principal risks and uncertainties and our long-term viability statement. Together these set out the material and emerging risks the company is currently facing, together with mitigation steps.

Our internal control environment (or 'system of internal control') has been designed to:

- Align and be integrated with our risk management approach
- Fully consider best practice, such as Committee of Sponsoring Organisations of the Treadway Commission ("COSO") Internal Control – Integrated Framework
- Fully consider Financial Reporting Council Guidance on Risk Management, Internal Control and Related Financial and Business Reporting.

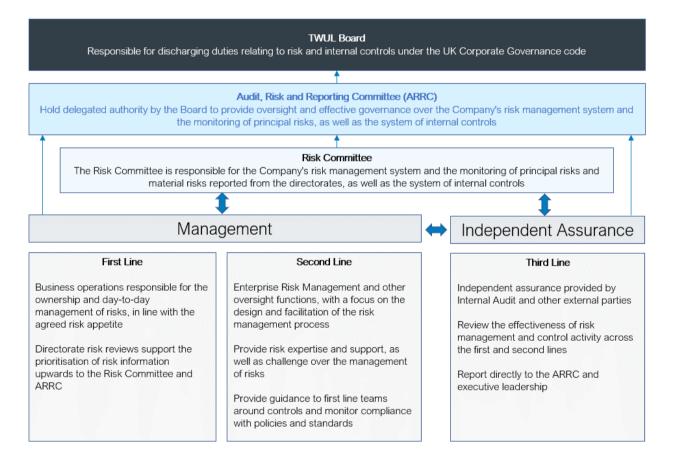
We are continuing to embed a risk-based 'three lines' assurance model throughout our business. This distinguishes between first line processes and controls, second line oversight and third line independent assurance.

We employ relevant expertise to ensure that we understand our statutory, regulatory and licence obligations and can translate them into policies, standards and procedures.

This expertise includes, but is not limited to, legal, financial, regulatory, health and safety, asset and process engineers and environmental professionals. We also draw upon additional external expertise where necessary, to ensure that any new, or changes to our existing, obligations are appropriately interpreted and applied.

Management and oversight teams monitor compliance with approved policies and procedures on an ongoing basis. We have also developed and deployed a compliance controls framework where we have translated our compliance obligations into a set of minimum control operating requirements. Through the coming year we are enhancing our working practices and processes to deliver operating effectiveness against these requirements.

The diagram below demonstrates how this structure is being applied across our business.



Source: Thames Water

#### 3. Processes and assurance we have in place to ensure accuracy and completeness of our data and information

Our external reporting process is designed to ensure we provide our customers and stakeholders with information that is easy to understand, provides transparency and can be relied upon, in order to build trust and confidence in our reporting.

To achieve confidence over the quality of the information we publish, including our regulatory submissions, we again apply our "three lines" assurance model.

This best practice approach means that we, and our customers, have a good level of assurance that our publications are accurate, complete and have been prepared correctly.

The approach we take is also guided by our external regulatory reporting (Ofwat) standard.

This establishes the minimum controls over the preparation and submission of information to deliver our response on time and to quality. For example, those submissions with the highest risk require approval of the Board and external independent assurance.

## 4. Exceptions to our compliance, data and information

We set out below material exceptions to our compliance with our statutory, licence and regulatory obligations.

In addition, our annual Control Self-Assessment process, by which all senior leaders across the business confirm their awareness and compliance with our obligations, has not identified any other incidences of material non-compliance for reporting.

#### Exceptions to our compliance data and information

| Duty or obligation   | Disclosure  | Actions being taken to improve   |  |
|--|---|--|--|
| Environmental<br>permitting<br>regulations and<br>section 94 of the<br>Water Industry<br>Act 1991,<br>general duty to<br>provide<br>sewerage<br>system | In March 2022, we were one of five<br>water companies to have an<br>enforcement case opened by Ofwat. In<br>TWUL's case this took the form of a<br>formal request under s203 Water<br>Industry Act 1991. As part of our initial | In March 2021 we launched our eight-<br>year turnaround plan which focuses on<br>significantly improving performance,<br>with an unprecedented amount of<br>investment directed towards<br>safeguarding the environment. |  |
|  | information disclosure, we identified<br>that we could have a number of<br>locations that have potentially breached<br>their permits.   | We've fully supported Ofwat and EA<br>with their investigations and have<br>remained focussed on delivering our<br>'compliance first' plan.  |  |
|  | TWUL remains under investigation by<br>the EA with regard to its compliance<br>with these environmental permits and<br>by Ofwat with regard to its compliance<br>with Section 94 of the Water Industry<br>Act.                  | For more information, see the Directors' Ring-fencing Certificate.   |  |
| Performance<br>commitments   | For 2022/2023, we failed to achieve 26<br>of our 52 performance commitments.<br>Full details on our performance can be<br>found in the "Our 2022/23<br>performance" section of this document                                    | To address this, we are focusing on fixing the basics, raising the bar, and shaping the future as part of our <u>eight-year turnaround plan</u> .  |  |

| Duty or obligation | Disclosure  | Actions being taken to improve   |
|--------------------|---|--|
|                    | We note that we are not fully compliant<br>with the Ofwat common methodology<br>for leakage, PCC and Supply<br>Interruptions (full details can be found<br>in our Reporting Criteria).            | Our shareholders showed their support<br>in June 2022 by approving additional<br>expenditure for the current regulatory<br>period to accelerate the delivery of<br>Thames Water's turnaround                                       |
|                    | Furthermore, we note that we are<br>waiting for EA final approval for four<br>schemes against Environmental   | performance to improve outcomes for<br>customers, leakage, and the<br>environment.   |
|                    | Measures Delivered, ES02<br>Despite a significant increase in recent<br>investment, the legacy of severe asset<br>deficit and the fragility of our<br>infrastructure were exposed in 2022-<br>23. | By the end of the current regulatory<br>period, we have committed to spend<br>more than £1bn per annum on capital<br>delivery projects. This is a significant<br>target and is a driving force of the<br>investment in our assets. |
|                    | We recognise that our performance is<br>'lagging behind' when compared to<br>some of the other water companies<br>within our sector.  |  |

#### 5. Board Assurance Statement

The Board of Thames Water Utilities is satisfied that we have, except where otherwise detailed:

- Taken appropriate steps to understand and meet the expectations of our customers
- A full understanding of, and have complied, in all material respects, with our statutory, licence and regulatory obligations
- Appropriate systems and processes in place to identify, manage and review our material risks
- Sufficient processes and systems of internal control to deliver our services to customers and meet our obligations
- Provided data and information to Ofwat which is accurate and complete in all material respects.

We also confirm that we have:

- Committed to maintain robust standards of corporate governance, following the requirements of both the UK Corporate Governance Code and Ofwat's Board Leadership, Transparency and Governance Principles (further details can be found in our Annual Report)
- Provided Ofwat with assurance that we have sufficient financial and management resources to enable us to carry out our regulated activities for at least the next 12 months (as detailed within our Ring-Fencing Certificate in this document)
- Sufficient rights and resources to enable a special administrator to run our Company if such an order were to be made (as detailed within our Ring-Fencing Certificate)
- Made sure that all trade with associated companies in the year has been at arm's length, as set out in Regulatory Accounting Guidance (RAG 5 – Guideline for transfer pricing and RAG3.14 – Transactions with

associates and the non-appointed business as found within the section "RAG 3/5 statements and other disclosures" in this document

- Maintained investment grade credit rating (as detailed in additional commentary on table 4H of our Regulatory Accounts)
- A principles-based dividend policy in place (details of which can be in the section "RAG 3/5 statements and other disclosures" in this document)
- Considered the financial impact of a range of severe, but plausible risk scenarios materialising to enable us to provide reasonable assurance that we will be able to continue in operation and meet our liabilities as they fall due over the next ten years, to 2032, as set out in our long-term Viability Statement
- Explained how we link Directors' pay to standards of performance as set out in section 35A of the Water Industry Act 1991 (further details can be found in the Directors' Remuneration Report in our Annual Report and Sustainability Report)
- Made our auditors aware of all relevant information (as required under the Companies Act 2006)
- Engaged and challenged management on their data and information assurance approaches through, for example, review and approval of the Statement of Risks, Strengths and Weaknesses and Final Regulatory Reporting Assurance Plans
- Taken action to ensure that any exceptions and weaknesses in the data and information assurance approaches have been addressed, such as through the use of external independent assurance
- Satisfied ourselves that the assurance approaches have appropriately identified and addressed any risks to the provision of accurate and complete data through reports from management and

Director deep dive sessions, predominantly with the Chairman and/or members of the Audit, Risk and Reporting Committee

 Reported in Section 4 where we have not achieved the level of performance agreed in our final determination.
 Further information is available within the "Our 2022/23 performance" section of this document.

During the course of its work, our independent auditor, PwC, is required to report if there are any material inconsistencies between the Regulatory Accounting Statements and other information contained within the Annual Performance Report; this includes the information contained within this Risk and Compliance statement.

PwC has not identified anything to report in respect of this responsibility. A copy of the Independent Auditors' Report is provided after Table 20 in the Regulatory Accounting section of this document. Signed by the Board of Thames Water Utilities:



lan Marchant Chairman



Alastair Cochran Chief Financial Officer

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Nick Land Deputy Chairman and Senior Independent Non-Executive Director



Hannah Nixon Independent Non-Executive



Independent Non-Executive Catherine Lynn

Independent Non-Executive Ian Pearson Independent Non-Executive



Jill Shedden Independent Non-Executive



Guy Lambert Non-Executive



Michael McNicholas Non-Executive



John Holland-Kaye Non-Executive

# Our approach to open data

"Open data means making data freely available to everyone to access, use and share."

#### H2Open Ofwat strategy

In the year since H2Open <sup>51</sup> was published, we have made significant progress as we strive to make open data available allowing us to create value for water customers, communities and the environment.

### In how we report

#### Annual performance report

To make our year end reporting data accessible and reusable by all, we've:

- Published our APR data tables in excel (in the exact table format to allow stakeholders to easily compare our performance with that of other water companies)
- Added graphs for each PC showing our performance over the whole AMP to date (providing our stakeholders with a more complete view of our performance)
- Listed our common PCs in the same order as that of the Water Companies Performance Report 2021/22 ("WCPR") (so that stakeholders can easily compare our performance with that of other water companies)
- Provided additional information in "blue boxes" (to help stakeholders' understanding of terms used in our APR)
- Provided interactive links to relevant areas of our website e.g. other

publications such as the Annual Report and our leakage performance pages on our website (so that stakeholders can see more specific information on key subjects)

- Provided a link to our action plan (as this provides the stakeholders with our latest plans to improve performance)
- Produced a glossary of terms as an accompaniment to the Annual Performance Report (to "jargon bust" water industry specific terms).

#### Our action plan

We published our action plan to improve performance on 11 April 2023.

Instead of a single pdf document, in the interests of transparency, we decided to create interactive web page content that not only links to individual pages on each performance commitment where the WCPR classified us as "lagging behind", but also links to other key information that we already have on our website.

We believe this approach creates the right balance between providing summarised information in a format that our customers and the public understand, and detailed information should they wish to learn more.

It also allows our customers and the public to obtain a more holistic view of our plans to address performance, rather than looking through the narrow lens of just the action plan.

We intend to keep our action plan updated, and this approach allows us to be more agile in the way we do this. For example, by providing links to our Pollution Incident Response and our River Health Improvement plans themselves, when we update these plans on our website, we will not need to change information in our action plan.

<sup>&</sup>lt;sup>51</sup> <u>H2Open – Open data in the water industry: a</u> <u>case for change</u>

#### Leakage

We provide regular quarterly updates about our leakage performance on our <u>website</u>. We do this to be transparent about our performance and the plans we have to reduce leakage.

# By developing open data for stakeholders

#### Live sewage discharge alerts

Since the beginning of the year, we have been publishing live sewage discharge alerts from over 460 permitted locations on our website (the first water company do so).

Our Discharge Alert Manager ("DAM") product provides a near real-time capability to monitor our STW and CSO discharge points combined with other data from our assets (such as pump runtimes, storm tank levels).

This product incorporates open data from the EA tide gauge Application Programming Interface ("API") to reduce false positive discharge alerts, thus making our operation more efficient and effective. Tidal data is fetched from the API and used to determine the tidal effect at our CSOs within the tideway of the River Thames.

We have 30 EDM at tidally influenced sites and we use this data, in conjunction with the EDM sensor data to determine the current and historical tidal effect so that we can generate accurate discharge alerts.

# By developing open data to manage our business

#### Groundwater infiltration risk dashboard

Our ground water infiltration risk dashboard is linked to a dataset on the EA API – ground water levels.

Several STW catchments have been identified with seasonal high flows related to groundwater and / or river levels. These high flows have resulted in flooding or pollution.

#### Abstract decision support tool

Using open data from the EA's real time flood-monitoring API has enabled us to create an Abstraction Decision Support Tool, which provides current river flow and level data at key locations along the course of the river Thames.

The tool conditionally formats this information using triggers defined by the EA to provide a red, amber, or green status of the flow and level at each location.

System operators in the London water control centre team in Thames Water then use the tool to inform decisions to increase or decrease abstractions, for example if a key weir level is in constraint and appearing red on the tool but there has been substantial rain in the catchment, the level and flow will likely rise to a level that permits abstraction within a short period of time.

Using the tool, the operator is able to react quickly when the level reaches amber and propose abstraction increases to the EA.

Likewise, if the level in the river turns red, the operator can reduce abstraction and inform the EA to assist their river management.

The tool has empowered faster decision making, which has led to increased raw water abstraction and improved supply resilience.

This has been particularly illustrated in the recovery of raw water storage during drought in 2022, where increases in river flows during September and October were often short-lived following heavy but sporadic rainfall and operators had to react swiftly to capitalise.

Using the tool, operators were able to proactively propose abstraction increases to the EA, which prevented storage reaching critical levels and endangering

### By our open data partnerships

We're significant contributors to three Open/Shared Data focussed Ofwat Innovation fund projects.

As a case study - in one project, 'Sewer CCTV AI', we (the contributing partners) intend to create an open data set to stimulate innovation and new product development in the market by opening water company data and making it readily useable through standardisation.

The project will deliver an open reference dataset on Sewer defects; it will be open licenced and can be used by anyone to create and train new AI models. Thames Water are contributing time, expertise and data to this project and have shared >500GB of data into this project so far.

Partnership working is central to our Smarter Water Catchments initiative and builds on existing relationships with key stakeholders in our catchments. Smarter Water Catchments is trialling a holistic and evidence-based approach to understand and improve three catchments within our operational area.

Working with partners such as the Chilterns Conservation Board and the River Chess Association we have been able to share data, create confidence and build trust in the water quality insight we have on our rivers.

Through these pilot projects, we have purchased real-time water quality Sondes which have been monitoring the catchments, detecting issues upstream and downstream of potential sources of pollution.

Two-way data sharing with our partners has allowed us to respond quickly to any potential issues and use multiple sources of information to understand the potential impact on the river. To date, our partners on the River Chess have been pleased with the actions we have taken, satisfied with our methods of data collection and confident in our approach to ensuring we understand the impacts elsewhere in the catchment. Most importantly being transparent with our data has led to improved levels of trust within the partnership which can be evidence through correspondence, social media posts and a willingness to continue to work in partnership with ourselves.

## Compliance with sanctions related to the conflict in Ukraine

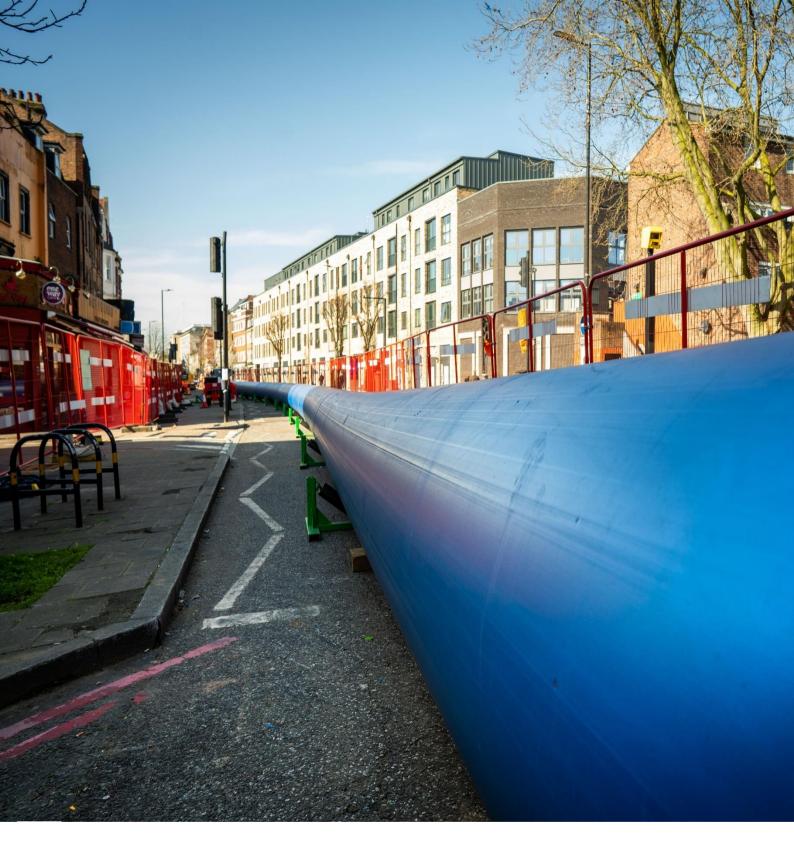
Thames Water recognises the increasing extent and reach of sanction legislation following the Russian invasion of Ukraine.

As such, we have processes in place to deal with UK sanctions and to carry out a range of targeted and proportionate due diligence in relation to counterparties where this is necessary.

Following the imposition of sanction legislation, we obtained advice from our legal advisers on the steps that need to be taken to comply with these sanctions, both from a supply chain and customer perspective.

This advice has been circulated to the appropriate senior managers around the business and is being acted upon.

Assurance work around compliance has also been carried out. This confirmed initial sanctions screening had been completed across the business including for new appointments and variations ("NAVs"), nonhousehold ("NHH") retailers, and for our suppliers.



# Our 2022/23 Regulatory Accounts

## RAG statements and other disclosures

# Definitions of appointed and non-appointed business

Our appointed business (an appointee) comprises the regulated activities we provide as a monopoly supplier. This includes functions and duties necessary to provide water and sewage services to our customers. This is detailed in Condition A of our licence of appointment and relates to the duties defined within the Water Industry Act 1991.

In addition to our duties as an appointed business, we also carry out certain nonappointed activities. All of these activities are conducted on an arm's length basis from the appointed business. These activities include third-party discharges to sewage treatment works and other commercial activities, including property searches and cess treatment (treatment of waste from private receptacles not linked to our network).

The results of the non-appointed business include payment of charitable donations. These donations are made out of external shareholder interests and are not funded by customers.

### Statement of Directors' Responsibilities

In addition to the requirements of Company law, our Directors are required to prepare accounting statements which comply with the requirements of Condition F of the Instrument of Appointment of the Company as a water and sewerage undertaker under the Water Industry Act 1991 and Regulatory Accounting Guidelines issued by Ofwat.

Separately our Directors are also required to comply with Condition P of the Instrument

of Appointment of the Company as a water and sewerage undertaker under the Water Industry Act 1991. The purpose of this condition is to ensure that:

- Appointed Business is conducted as if it is substantially the Appointee's sole business, and it is a public limited company separate from any other business carried out by the Appointee;
- The Appointee retains sufficient rights and assets and has in place adequate financial resources and facilities, management resources and systems of planning and internal controls;
- Any transfers or transactions entered into by the Appointee do not adversely affect the Appointee's ability to carry out the Regulated Activities; and
- The Appointee demonstrates that it is complying with the requirements of this Condition.

These responsibilities are additional to those already set out in our Annual Report and Sustainability Report. For further details of the additional responsibilities, refer to the Ring-fencing Certificate and the Risk and Compliance Statement.

# Disclosure of information to auditor

The Directors who held office at the date of approval of this report confirm that:

- So far as they are each aware, there is no relevant audit information of which the Company's auditor is unaware
- Each Director has taken all the steps that they ought to have taken as a Director to make themselves aware of any relevant audit information and to establish that the Company's auditors are aware of the information.

# Executive pay and performance

We are committed to transparent reporting within our Annual Reports as appropriate and in accordance with legal and regulatory requirements, including Ofwat's Board leadership, transparency and governance principles. This also includes a commitment to reporting any changes in policy and the underlying reasons.

Our Remuneration Committee determines our policy on remuneration of Executive Directors and Non-Executive Directors. Our Remuneration Committee Report within our Annual Report and Sustainability Report provides a description of the link between Directors' pay and standards of performance (as required by section 35A of the Water Industry Act 1991) and disclosures required under Regulatory Accounting Guidelines.

Our remuneration policy ensures that executive remuneration has a clear alignment to Thames Water's performance and long-term success, in the interests of customers. It is designed to be stretching and also provide sustained and long-term value creation for shareholders and other stakeholders.

### Non-Executive Directors

The Chairman and Non-Executive Directors do not participate in any performance related arrangements (i.e. Annual Management Bonus ("AMB") or Long-Term Incentive plan ("LTIP")) and do not participate in the Thames Water pension plans. They are paid Directors' fees only.

### **Executive Directors**

Executive Directors' remuneration includes a mix of fixed and variable pay comprising basic salary plus performance related incentives. Through the current AMB and LTIP arrangements, Executive Directors are entitled to receive remuneration linked to the achievement of performance measures. The Executive Directors made personal decisions to waive receipt of any payments that may have been due to them under the 2022/23 AMB and the 2020-23 LTIP.

As set out in section on the Directors' Remuneration Review, a new performancerelated pay plan will be implemented for 2023/24. This increases the focus on performance outcomes for customers and the environment and reduces the weighting of measures associated with financial performance. It has been designed with the aim of delivering the sustained performance improvement that our customers and the environment deserve.

The 2022/23 Annual Management Bonus plan was based on safe people, customer service, customer and environmental delivery, and financial performance, over a performance period of one financial year and is paid in cash.

The 2020-23 LTIP outcomes were measured over a three-year period, with a focus on delivering critical elements of our stretching business plan which included the delivery of an overarching "Integrated Performance Assessment" measured using the Return on Regulated Equity ("RORE"). This assessment provided a measure of successful delivery for customer, the environment and shareholders since it is impacted by all aspects of our business plan.

To provide increased focus on customer and the environment, the LTIP included additional elements targeting delivery of business plans for customer service, leakage, water quality and pollutions.

The 2020-23 LTIP award vests three years after the date of grant subject to the achievement of the performance conditions and is paid in cash.

In determining the outcome of the incentive schemes, standards of performance are assessed by the Thames Water Remuneration Committee to ascertain whether targets have been achieved. In addition, the Committee also considers relevant reports from Ofwat in assessing the achievement of standards of performance.

# Dividend policy for the appointed business

TWUL's overall objective is to pay a progressive dividend commensurate with the long-term returns and performance of the business, after considering the business's current and expected regulatory and financial performance, regulatory restrictions, management of economic risks and debt covenants.

In assessing the dividend to be paid, the Directors are required to ensure that:

- Payment of a proposed dividend should not impair short term liquidity or compliance with the Company's covenants;
- Payment of a proposed dividend should not impair the longer-term ability to finance the Company's business, including access to both debt and equity capital;
- An assessment is made to determine if the payment of a dividend reflects the Company's performance against the final determination for AMP7 and its

commitments to customers and other stakeholders;

- An assessment is made of the impact the payment of the dividend may have on its commitments and obligations to customers and other stakeholders as a supplier of essential services, which includes customer commitments, environmental commitments, community commitments, employees and pension members; and
- An assessment is made of the long-term financial resilience of the Company.

## Regulatory considerations for the appointed business

Any dividends that are declared or paid will be adjusted both upwards and downwards relative to the Ofwat's 4% dividend yield guidance reflecting the company's performance in meeting its commitments and obligations to customers and other stakeholders.

If a gross dividend is declared above Ofwat's 4% dividend yield guidance, applied to Ofwat's notional company, the Board will consider whether the additional returns result from performance (including progress towards degearing) that has benefited customers and may therefore be reasonably applied to finance a dividend.

The Board has noted that Ofwat modified the dividend policy licence condition, with effect from 17 May 2023, such that Condition P of our instrument of appointment requires that an Appointee shall declare or pay dividends only in accordance with a dividend policy which has been approved by the Board of the Appointee and which complies with the following principles:

- that dividends declared or paid will not impair the ability of the Appointee to finance the Appointed Business, taking account of current and future investment needs and financial resilience over the longer term;
- that dividends declared or paid take account of service delivery for

customers and the environment over time, including performance levels, and other obligations;

 that dividends declared or paid reward efficiency and the effective management of risks to the Appointed Business.

Ofwat's dividend disclosure requirements are reflected in the regulatory accounting guidelines (RAG 3 – Guidelines for the format and disclosures for the annual performance report), which are updated from time to time. RAG 3 requires companies to provide sufficient explanation within the annual performance report such that a reader will understand the process undertaken by the Board in determining the appropriate level of dividend and the basis of their decisions.

It should be noted that Ofwat's updated dividend policy guidance came into effect after the Board made its decision relating to 2022/23 dividend payments and after such payments had been made. However, the Board believe that the Thames Water dividend policy already, in the round, has regard to Ofwat's requirements – albeit the Board will be reviewing the Thames Water dividend policy during the course of 2023/34 to ensure alignment.

#### 2022/23 dividend payments

Our shareholders take seriously their commitments and obligations to customers and other stakeholders (including the environment, communities, employees and pension members) as a supplier of essential services. They also recognise the need to turnaround performance and the long-term nature of the Executive's plan to deliver this objective.

Our external shareholders did not receive a dividend in the 2022/23 financial year, the sixth consecutive year, underlining their commitment to re-investing cash flow into delivering improved performance for customers. Notwithstanding this, TWUL's overall objective is to pay a progressive dividend commensurate with the long-term

returns and performance of the business, after considering the business's current and expected regulatory and financial performance, regulatory restrictions, management of economic risks and debt covenants.

The Board made an assessment, having regard to our updated dividend policy as to whether it was appropriate to make a dividend distribution to shareholders in 2022/23.

The key factors are set out below, with commentary that the Board considered when making this assessment.

#### Payment of a proposed dividend should not impair short term liquidity or compliance with our covenants

Based on our going concern assessment outlined in our Annual Report, we believe Thames Water has the ability pay a dividend whilst allowing the business to maintain sufficient liquidity and compliance with our covenants. This assessment took into account the £500 million of proceeds which shareholders committed to provide in March 2023 to enable Thames Water to deliver its business plan. This funding was received on 30 March 2023. However, in light of continued high levels of capital investment and high forecast levels of gearing, the Board concluded to not pay any dividends towards a dividend to our external shareholders, whilst paving a £45,2 million dividend in March 2023 to service the debt obligations of one of our holding companies, Kemble Water Finance Limited ("KWF"), and group related costs.

#### Payment of a proposed dividend should not impair the longer-term ability to finance the Company's business, including access to both debt and equity capital.

The payment of dividends to service the debt obligations of one of our holding companies, KWF, plays a key role in maintaining access to funds either via equity capital provided by shareholders and / or from raising incremental debt at KWF which is underpinned by lender and credit rating agency confidence. Consequently, there is a risk that not paying a dividend could negatively impact planned refinancing activity, the Group's credit rating outlook and the capacity to raise incremental equity capital that is factored into TWUL's business plan to invest in the business, pay down debt and manage gearing covenant headroom.

Consequently, the Board concluded that it was both responsible and reasonable to approve a payment of dividends to service such debt obligations of KWF, and group related costs.

To help maintain long term financial resilience, the Board concluded not to pay dividends for any external distributions to shareholders throughout the year – the sixth consecutive year.

These decisions considered the Group's current capital structure and was consistent with its legal and regulatory obligations to ensure that TWUL is a financially resilient business with ready access to debt and equity capital.

An assessment is made to determine if the payment of a dividend reflects the Company's performance against the final determination for AMP7 and its commitments to customers and other stakeholders.

The Board assessed overall company performance in the round. In considering the company's performance against the final determination for AMP7 (and the Company's own business plan) the Board noted that overall performance in 2022/23 was short of expectations.

Overall operational performance in 2022/23 was significantly affected by the extreme drought in the summer of 2022 and a major freeze thaw event in December 2022. In addition, performance was undermined by a relatively small but significant number of large operational events which highlighted the underlying fragility of some of our assets and the need for investment to better manage the impact of climate change and population growth. The Board particularly noted that:

- Customer service remains poor, despite a c.28% reduction in complaints the Company remains in 17th place (of 17) in C-Mex in FY23. Performance was impacted by extreme weather
- The company missed key regulatory targets including those relating to leakage, supply interruptions, water quality, main repairs, internal sewer flooding and pollutions.
- The company met targets relating to unplanned outages, sewer collapses and priority services.

The Board further noted that environmental performance has deteriorated – reflecting challenging operational conditions due to adverse weather (including the summer drought and winter freeze-thaw events) – and CSO discharges are under public, regulatory and stakeholder scrutiny.

Overall the company delivered 26 of its 52 performance commitments and will therefore receive a net ODI penalty of £82.3 million this financial year (excluding C-Mex and D-Mex).

In light of the points above the Board therefore concluded to restrict dividends for external distributions to shareholders whilst maintaining some internal distributions having concluded that such internal distributions were in the overall interests of TWUL. Overall yield was 1.2%, significantly below the 4% Ofwat yield guidance reflecting the disappointing operational and financial performance.

An assessment is made of the impact that payment of the dividend may have on its commitments and obligations to customers and other stakeholders as a supplier of essential services, which includes customer commitments, environmental commitments, community commitments, employees and pension members.

The Board also considered the impact of dividend payments in the 2022/23 financial year on our 8-year turnaround plan, the revised business plan, and our commitments and obligations to customers and other stakeholders. These plans have been designed to significantly improve Thames Water's operational performance, deliver on its regulatory obligations, improve river heath, increase resilience and deliver better outcomes for its customers, communities and the environment.

Limiting internal distributions in 2022/23 to £45.2 million, a yield materially below Ofwat's guidance of 4%, was considered unlikely to have a material impact on our commitments and obligations to customers and other stakeholders as a supplier of essential services.

Furthermore, the Board did not expect this dividend to have a material impact on employees and pension members. The Board noted that in 2020/21 financial year, an exceptional £69.7 million payment was made to the pension scheme relating to the deficit repayment plan during that year, which covered the remaining deficient payments agreed with the pension trustees for AMP7.

## An assessment of the long-term financial resilience of the Company.

Based on our long term viability statement, outlined in our Annual Report, we believe Thames Water has the ability pay a dividend and this would not be expected to impair our long term viability.

The Board considered its credit ratings and ratings outlook, forecast compliance with debt covenants and long term liquidity forecasts. At the time of the dividend assessment, the Board noted that Moody's had assigned a Corporate Family Rating ("CFR") of Baa2 with stable outlook and S&P had assigned a BBB rating with stable outlook to Class A debt. It also noted increasing high levels of capital investment planned for the rest of the current AMP7 regulatory price control period.

To support delivery of our new business plan and increasing levels of investment, £500 million of funds were provided by shareholders in March 2023. The Executive team is working with shareholders on plans to provide a further £750 million of funding for the remainder of the current regulatory period, which will be subject to certain conditions, to drive Thames Water's turnaround over the remainder of the current regulatory period and establish a solid foundation for Thames Water's long term growth.

The Executive team will continue to reflect the ongoing turnaround in its next business plan for the five-year regulatory period starting in 2025. A focus of that business plan will be to maximise the likelihood that Thames Water receives a PR24 regulatory determination that supports the turnaround. As part of this, Thames Water shareholders acknowledge that further shareholder support may be required to improve financial resilience.

Considering the factors, the Board concluded to restrict dividends such that external shareholders did not receive a dividend, whilst enabling dividends for the servicing of debt obligations of KWF, and group related costs. Such dividends are not expected to impact on the Appointee's ability to deliver its turnaround plan and finance its functions.

#### Conclusion

Having regard to all the factors outlined above, the Board concluded that it was not appropriate to declare dividends to enable any external dividend to shareholders for 2022/23, the sixth year in succession.

In March 2023, £45.2 million of dividends were made to service the debt obligations of KWF, and group related costs The total interest paid by KWF in 2022/23 was £70.5 million, £42.4 million was funded by the dividend payment after taking into account £2.8 million retained at Thames Water Limited for group related costs, with the remainder paid from cash reserves within KWF.

The Board concluded that it was both reasonable and responsible to approve the payment of the dividends, which represent a yield of 1.2%, (materially below Ofwat's guidance) having regard to the Group's revised dividend policy, current capital structure, and was consistent with its legal and regulatory obligations to ensure that Thames Water Utilities Limited is a financially resilient business with ready access to debt and equity capital.

### Tax strategy

Our aim is to be clear and transparent over our approach to tax and our tax profile to ensure we're a responsible business. Our tax strategy is straightforward and underpinned by five key principles, which are unchanged from the previous year:

- We comply with all tax legislation at all times, both within the letter and spirit of the law;
- We do not use tax avoidance schemes or aggressive tax planning;
- We engage fully and transparently with HMRC and other Governmental bodies, and seek to resolve disputes in a cooperative manner;
- We adopt a conservative approach to tax risk management and apply a strong tax governance framework; and
- We accept only a low level of risk in relation to taxation.

You can find more detail on our tax strategy on our website at:

https://www.thameswater.co.uk/medialibrary/home/about-us/governance/ourpolicies/tax-strategy.pdf

## Long-term Viability Statement

The assessment of our long-term viability can be found in our Annual Report and Sustainability Report. The Directors have conducted this assessment over a ten-year period to 31 March 2033, taking into account the Company's current position and principal risks. Based on this assessment, the Board has a reasonable expectation that the Company will be able to operate within its financial covenants, maintain an investment grade credit rating and maintain sufficient liquidity facilities to meet its funding needs over the assessment period, based on the underlying assumptions outlined in the assessment.

### Innovation competition

Amounts have been collected from customers relating to an established industry wide innovation fund as disclosed in our table 9A.

In the current year Annual Report we have provided for the full value of funding we have collected from customers – recognising that we have an obligation to either deliver projects to this value or compensate other companies which win competition funding. In the Annual Performance Report these provisions are excluded in line with direction from Ofwat.

The funding we have collected has been ring-fenced within our accounting records and will only be used to deliver innovation competition projects, it will not fund business as usual activities or spend.

The total amount collected to date is £22.223 million, out of which we have paid out £10.500 million to MOSL (Market Operator Services Ltd). We have received funding from MOSL of £7.700 million during FY 22/23 out of which we have spent £1.200 million. The total amount held in 1C.11 cash balance relating to innovation fund is £18.123 million.

# Infrastructure network reinforcement charges

Following clarification received from Ofwat as part of the PR24 Final Methodology, total network reinforcement reported in table 2J includes £8.0m of reclassified expenditure attributable to prior periods. As a result, our overall variance carried forwards has reduced to £12.3m as at 31 March 2023. The Company reviews its infrastructure charge rates annually and revisions are made as necessary to align to our long-term projection of network reinforcement expenditure.

# Separately disclosed regulatory information

We've chosen to publish the regulatory tables 4B, 4L, 4M, 6F, 7B and 7F as a separate document to this Annual Performance Report due to the size of the tables.

These have been prepared in line with regulatory guidelines and follow the principles set out in this Annual Performance Report.

You can view these tables on our website.

### Consolidated results

In completing all tables – we have included all debt relevant to the regulated company. Figures therefore include both Thames Water Utilities Limited ("TWUL") and its direct 100% owned financing subsidiary Thames Water Utilities Finance plc ("TWUF").

### Transactions with associates and the non-appointed business

We have disclosed transactions with both associated companies and our nonappointed business in accordance with the guidance provided in RAG 5.07.

Although our appointed business applies International Financial Reporting Standards ("IFRS"), an associated company for the purposes of this disclosure is any company within the Group or a related company as defined by Financial Reporting Standard 102.

The following disclosures comply with RAG 3.14 (The Group means the group of companies headed by Kemble Water Holdings Limited, the ultimate parent company).

During the year there were no single contracts in excess of 0.5% (£11.1m) of the Company's appointed income with any subsidiary of the Kemble Group of companies or related companies.

The Company has also chosen to voluntarily disclose all transactions with companies for which there is a common Director. The Directors of the Company and their connection to other Group companies is shown on the Directors' interest table.

The dividend paid during 2022/23 to the parent company Thames Water Utilities Holdings Limited of £45.2m was used solely to service group debt obligations and minor working capital requirements.

**Our regulatory accounts** 

|  | Company<br>principal<br>activity    | Services<br>provided  | Turnover<br>during<br>2022/23<br>in £000s | Terms of supply 2022/23               | Value in<br>£000s |
|--|-------------------------------------|---|---|---------------------------------------|-------------------|
| Thames Water Property<br>Services Limited  | Property<br>Company                 | Director costs,<br>Financial Control,<br>Treasury, Company<br>Secretary and Tax<br>support services | 196.1                                     | No market – actual<br>costs recharged | (235.8)           |
| Thames Water Utilities<br>Holdings Limited | Holding<br>Company                  | Group relief  | -   | No market – actual<br>cost            | (30,397.1)        |
| Dunelm Energy Limited                      | Management<br>Consultant<br>Company | Administrative services   | -   | Not recognised                        | (16.0)            |
| Total value in £000s                       |                                     |   |   |                                       | (30,648.9)        |

## Services provided to the Company by associated companies

# Services provided by the Company and recharged to associated companies

| •   |                                  |  |   |   |                   |
|---|----------------------------------|--|---|---|-------------------|
| Associate Company                             | Company<br>principal<br>activity | Services<br>provided   | Turnover<br>during<br>2022/23 in<br>£000s | Terms of supply 2022/23                   | Value in<br>£000s |
| Thames Water<br>Limited                       | Holding<br>Company               | Director costs, Financial<br>Control, Treasury,<br>Company Secretary and<br>Tax support services | -   | No market –<br>costs allocated<br>by time | 719.6             |
| Kennet Properties<br>Limited                  | Property<br>Company              | Director costs, Financial<br>Control, Treasury,<br>Company Secretary and<br>Tax support services | 1,593.7                                   | No market –<br>costs allocated<br>by time | 52.2              |
| Kennet Properties<br>Limited                  | Property<br>Company              | Payroll costs  | -   | No market –<br>costs allocated<br>by time | 40.1              |
| Kemble Water<br>Eurobond                      | Holding<br>Company               | Corporation tax group<br>relief surrendered by<br>regulated business                             | -   | No market –<br>actual costs               | 96,146.0          |
| Kemble Water<br>Eurobond                      | Holding<br>Company               | Director costs, Financial<br>Control, Treasury,<br>Company Secretary and<br>Tax support services | -   | No market –<br>costs allocated<br>by time | 34.7              |
| Kemble Water<br>Holdings                      | Holding<br>Company               | Director costs, Financial<br>Control, Treasury,<br>Company Secretary and<br>Tax support services | -   | No market –<br>costs allocated<br>by time | 915.3             |
| Kemble Water<br>Finance                       | Holding<br>Company               | Director costs, Financial<br>Control, Treasury,<br>Company Secretary and<br>Tax support services | -   | No market –<br>costs allocated<br>by time | 284.0             |
| Thames Water<br>Utilities Holdings<br>Limited | Holding<br>Company               | Intercompany interest  | -   | No market –<br>Negotiated                 | 47,461.6          |
| Thames Water<br>Utilities Holdings<br>Limited | Holding<br>Company               | Intercompany loan  | -   | No market –<br>Negotiated                 | 1,249,106.3       |
| Thames Water<br>Pension Trustees<br>Limited   | Pension<br>Trustees              | Support services   | 1,502.6                                   | No market –<br>costs allocated<br>by time | 331.3             |
| Kemble Ventures<br>Operations Limited         | Shared<br>Management<br>Service  | Payroll costs  | -   | No market –<br>costs allocated<br>by time | 2,174.7           |
| Kemble Ventures<br>Operations Limited         | Shared<br>Management<br>Service  | Director costs, Financial<br>Control, Treasury,<br>Company Secretary and<br>Tax support services | -   | No market –<br>costs allocated<br>by time | 81.5              |
| Total value in £000s                          |                                  |  |   |   | 1,397,347.3       |
|   |                                  |  |   |   |                   |

Note that during the year the Group paid its immediate parent company, Thames Water Utilities Holdings Limited, a dividend of £45.2 million (2022: £37.1 million) in compliance with RAG 3.14

### Payments to companies with common Directors

| Company<br>(and service provided)                                  | Common Director    | Terms of supply 2022/23 | Value<br>(£'000) |
|--|--------------------|-------------------------|------------------|
| Cadent Gas Limited<br>Liquid and Gas Distribution services         | Perry Noble        | Negotiated              | 123.6            |
| Energy Networks Association Limited<br>Memberships & Subscriptions | John Morea         | Mandatory Fee           | 5.0              |
| Omers Infrastructure Europe Limited Plant upgrade                  | Alastair Hall      | Negotiated              | 192.0            |
|  | Michael McNicholas |                         |                  |
| SGN Commercial Services Ltd  | Guy Lambert        | Negotiated              | 4,817.5          |
| Liquid and Gas Distribution services                               | Peter McCosker     | 0                       |                  |
| Water UK<br>Memberships & Subscriptions                            | Sarah Bentley      | Mandatory Fee           | 788.1            |
| Infinity Investment S.A.<br>Directors Fees                         | Guy Lambert        | Negotiated              | 39.6             |
| Total in £000s   |                    |                         | 5,965.8          |

Note that the above table includes non-TWUL Directors. Also, independent Non-Executive Directors are not deemed to exercise control, as such they have not been included in the above analysis.

## Directorships held in Group Companies

The Company discloses the following information as part of its compliance with RAG 5.07, listing those Directors of the Company who are also Directors of the following Group companies during the year ended 31 March 2023 and up to the date of signing this report:

| Director           | Thames<br>Water<br>Utilities Ltd | Thames<br>Water<br>Utilities<br>Holdings Ltd | Thames<br>Water Ltd | Kemble<br>Water<br>Finance Ltd | Kemble<br>Water<br>Eurobond Plc | Kemble Water<br>Holdings Ltd |
|--------------------|----------------------------------|--|---------------------|--------------------------------|---------------------------------|------------------------------|
| Sarah Bentley      | R<br>27/06/23                    |  |                     |                                |                                 |                              |
| Alastair Cochran   | ~                                |  |                     |                                |                                 |                              |
| Michael McNicholas | ~                                | R<br>23/03/23                                | R<br>23/03/23       | R<br>23/03/23                  | R<br>23/03/23                   | R<br>23/03/23                |
| John Morea         | R<br>29/09/22                    |  |                     |                                |                                 |                              |
| Guy Lambert        | A<br>29/09/22                    | R<br>01/12/22                                | R<br>01/12/22       | R<br>01/12/22                  | R<br>01/12/22                   | R<br>01/12/22                |
| John Holland-Kaye  | A<br>01/04/23                    |  |                     |                                |                                 |                              |
| Ian Marchant       | ~                                |  |                     |                                |                                 |                              |
| Nicholas Land      | ~                                |  |                     |                                |                                 |                              |
| Catherine Lynn     | ~                                |  |                     |                                |                                 |                              |
| Ian Pearson        | ~                                |  |                     |                                |                                 |                              |
| Jill Shedden       | ~                                |  |                     |                                |                                 |                              |
| Hannah Nixon       | ~                                |  |                     |                                |                                 |                              |
| David Waboso       | R<br>12/05/23                    |  |                     |                                |                                 |                              |

R - resigned, A - appointed

### Borrowings and loans

All borrowings from our wholly owned subsidiaries are disclosed in note 39 of our Annual Report and Sustainability Report. All loans to our wholly owned subsidiaries are disclosed in note 40 of the Annual Report.

# Transfer of assets by or to the appointee

There were no transfers of assets or liabilities by or to our Company in excess of the materiality limit (2022: £Nil).

# Guarantees or other forms of security by the appointee

The Company, as part of the Whole Business Securitisation ("WBS") capital structure, guarantees unconditionally and irrevocably all the borrowings and derivatives of Thames Water Utilities Finance plc.

### Omissions of rights

There were no omissions of rights during the year (2022: none).

### Waiver of any consideration, remuneration or other payment by the appointee

There were no waivers of any consideration, remuneration or other payments by the appointee during the year (2022: none).

# Differences between statutory and RAG definitions

Adjustments are made to the statutory numbers to ensure compliance with the Ofwat guidance detailed in RAG 3.14 and 4.11.

The most significant include:

- Reclassification of current year bad debt from revenue to operating costs (£68.3m);
- Borrowing costs capitalised within fixed assets in the statutory accounts are recognised as interest expense for regulatory purposes (£215.2m). The associated depreciation of borrowing costs is recognised in operating costs (£9.3m); and,
- Reclassification of certain costs and incomes to align with regulatory presentation requirements.

Full reconciliations of the differences between statutory and regulatory figures for revenue, operating profit, other income, and profit before tax can be found in the section on Accounting Policies.

Non-appointed activities include revenue of £85.1m and operating costs of £0.7m relating to Bazalgette Tunnel Limited ("BTL"). BTL is an independent company unrelated to Thames Water Utilities Limited and was appointed in 2015 to construct the Thames Tideway Tunnel.

The arrangement with BTL means that the Company has included construction costs of the Thames Tideway Tunnel within its bills to wastewater customers during the year ended 31 March 2023. As cash is collected, these amounts are subsequently paid to BTL within a maximum of 50 business days under 'pay when paid' principle.

Accounting standards require the Group to present the amounts billed as revenue in our financial statements, and with an associated cost representing bad debt on amounts billed. This also gives rise to reporting profit which is taxable. Non appointed activities also include our tankered waste and property searches businesses.

#### Interest analysis

| 1A.7   | £m       |
|--|----------|
| Interest on external debt                                  | -433.064 |
| Interest on intra-group debt                               | -0.117   |
| RPI accretion on debt                                      | -460.884 |
| Amortisation of debt issuance costs, premium and discounts | -10.770  |
| Interest in relation to leases                             | -1.352   |
| Trading interest expense                                   | -0.062   |
| Other financing costs                                      | -2.388   |
| Per 1A.7   | -908.637 |

| 1A.8   | £m     |
|--|--------|
| Net interest expense on defined benefit obligation | -6.700 |
| Per 1A.8   | -6.700 |

Section 1 Regulatory financial reporting

## Table 1A: Income statement for the 12 months ended 31 March 2023

This table takes the information from the statutory income statement and shows the adjustments made in order to arrive at the regulatory income statement for the appointed business. The adjustments include both differences between the International Financial Reporting Standards and the Regulatory Accounting Guidelines and the removal of non-appointed income and costs.

| Line description   | Statutory  |   | Adjustments       |                      | Total                   | RAG 4 |
|--|------------|---|-------------------|----------------------|-------------------------|-------|
| ິ Units: £m  |            | Differences<br>between<br>statutory<br>and RAG<br>definitions | Non-<br>appointed | Total<br>adjustments | appointed<br>activities | Ref   |
| Revenue  | 2,265.205  | 65.382  | 104.450           | -39.068              | 2,226.137               | 1A.1  |
| Operating costs  | -2,016.800 | -31.236   | -20.148           | -11.088              | -2,027.888              | 1A.2  |
| Other operating income   | 107.559    | -103.605  | 0.000             | -103.605             | 3.954                   | 1A.3  |
| Operating profit   | 355.964    | -69.459   | 84.302            | -153.761             | 202.203                 | 1A.4  |
| Other income   | 0.000      | 87.883  | 1.031             | 86.852               | 86.852                  | 1A.5  |
| Interest income  | 223.700    | 0.000   | 0.000             | 0.000                | 223.700                 | 1A.6  |
| Interest expense   | -700.158   | -208.479  | 0.000             | -208.479             | -908.637                | 1A.7  |
| Other interest expense   | 0.000      | -6.700  | 0.000             | -6.700               | -6.700                  | 1A.8  |
| Profit/(loss) before tax<br>and fair value<br>movements                | -120.494   | -196.755  | 85.333            | -282.088             | -402.582                | 1A.9  |
| Fair value<br>gains/(losses) on<br>financial instruments <sup>52</sup> | 122.343    | 0.000   | 0.000             | 0.000                | 122.343                 | 1A.10 |
| Profit/(loss) before tax   | 1.849      | -196.755  | 85.333            | -282.088             | -280.239                | 1A.11 |
| UK corporation tax   | 91.157     | 0.000   | -5.753            | 5.753                | 96.910                  | 1A.12 |
| Deferred tax   | -123.053   | 0.000   | 0.015             | -0.015               | -123.068                | 1A.13 |
| Profit/(loss) for the year   | -30.047    | -196.755  | 79.595            | -276.350             | -306.397                | 1A.14 |
| Dividends  | -45.200    | 0.000   | 0.000             | 0.000                | -45.200                 | 1A.15 |
| Tax analysis   |            |   |                   |                      |                         |       |
| Current year   | -96.146    | 0.000   | 0.000             | 0.000                | -96.146                 | 1A.16 |
| Adjustment in respect of prior years                                   | 4.989      | 0.000   | 5.753             | -5.753               | -0.764                  | 1A.17 |
| UK corporation tax   | -91.157    | 0.000   | 5.753             | -5.753               | -96.910                 | 1A.18 |
| Analysis of non-appointed  | revenue    |   |                   |                      |                         |       |
| Imported sludge  |            |   | 0.000             |                      |                         | 1A.19 |
| Tankered waste   |            |   | 7.013             |                      |                         | 1A.20 |
| Other non-appointed revenue  |            |   | 97.436            | ·                    |                         | 1A.21 |
| Total non-appointed<br>Revenue   |            |   | 104.449           |                      |                         | 1A.22 |

<sup>52</sup> The amount includes the fair value of £717.4m accreted on index linked swaps during the year.

# Table 1B: Statement of comprehensive income for 12 months ended 31 March 2023

|   |           |                                     | Adjustments       |                      |                                  |              |
|---|-----------|-------------------------------------|-------------------|----------------------|----------------------------------|--------------|
| Line description<br>Units: £m                     | Statutory | Differences<br>statutory<br>and RAG | Non-<br>appointed | Total<br>adjustments | Total<br>appointed<br>activities | RAG 4<br>Ref |
| Profit for the year                               | -30.047   | -196.755                            | 79.595            | -276.350             | -306.397                         | 1B.1         |
| Actuarial gains/(losses) on post-employment plans | 69.400    | 0.000                               | 0.000             | 0.000                | 69.400                           | 1B.2         |
| Other comprehensive income                        | 0.285     | 0.000                               | 0.000             | 0.000                | 0.285                            | 1B.3         |
| Total Comprehensive income for the year           | 39.638    | -196.755                            | 79.595            | -276.350             | -236.712                         | 1B.4         |

The statement of comprehensive income shows all of the changes to our statement of financial position reserves from the statutory accounts, adjusting for the differences between IFRS and the RAGs as well as excluding the results of the non-appointed business.

# Table 1C: Statement of financial position for the 12 months ended 31 March 2023

|  |            |                                       | Adjustments       | <b>T</b> ( )         |                                  |              |
|--|------------|---------------------------------------|-------------------|----------------------|----------------------------------|--------------|
| Line description<br>Units: £m          | Statutory  | Differences<br>statutory<br>and RAG s | Non-<br>appointed | Total<br>adjustments | Total<br>appointed<br>activities | RAG 4<br>Ref |
| Non-current assets                     |            |                                       |                   |                      |                                  |              |
| Fixed assets                           | 18,059.234 | -933.952                              | 5.822             | -939.774             | 17,119.460                       | 1C.1         |
| Intangible assets                      | 263.272    | -8.483                                | 0.000             | -8.483               | 254.789                          | 1C.2         |
| Investments - loans to group companies | 1,249.106  | 0.000                                 | 0.000             | 0.000                | 1,249.106                        | 1C.3         |
| Investments - other                    | 442.443    | 0.000                                 | 377.979           | -377.979             | 64.464                           | 1C.4         |
| Financial instruments                  | 417.232    | -122.148                              | 0.000             | -122.148             | 295.084                          | 1C.5         |
| Retirement benefit<br>assets           | 6.000      | 0.000                                 | 0.000             | 0.000                | 6.000                            | 1C.6         |
| Total non-current assets               | 20,437.287 | -1,064.583                            | 383.801           | -1,448.384           | 18,988.903                       | 1C.7         |
| Current assets                         |            |                                       |                   |                      |                                  |              |
| Inventories                            | 20.893     | 0.000                                 | 0.000             | 0.000                | 20.893                           | 1C.8         |
| Trade & other receivables              | 758.317    | 0.000                                 | 4.731             | -4.731               | 753.586                          | 1C.9         |
| Financial instruments                  | 31.864     | -33.161                               | 0.000             | -33.161              | -1.297                           | 1C.10        |
| Cash & cash<br>equivalents             | 1,836.306  | 0.000                                 | 6.990             | -6.990               | 1,829.316                        | 1C.11        |
| Total current assets                   | 2,647.380  | -33.161                               | 11.721            | -44.882              | 2,602.498                        | 1C.12        |

|  |             | Adjustments                           |                   |                      |                                  |              |
|--|-------------|---------------------------------------|-------------------|----------------------|----------------------------------|--------------|
| Line description<br>Units: £m            | Statutory   | Differences<br>statutory<br>and RAG s | Non-<br>appointed | Total<br>adjustments | Total<br>appointed<br>activities | RAG 4<br>Ref |
| Current liabilities                      |             |                                       |                   |                      |                                  |              |
| Trade & other payables                   | -951.259    | 62.315                                | -12.082           | 74.397               | -876.862                         | 1C.13        |
| Capex creditor                           | 0.000       | -241.063                              | 0.000             | -241.063             | -241.063                         | 1C.14        |
| Borrowings                               | -2,287.831  | 148.699                               | 0.000             | 148.699              | -2,139.132                       | 1C.15        |
| Financial instruments                    | -67.090     | 68.615                                | 0.000             | 68.615               | 1.525                            | 1C.16        |
| Current tax liabilities                  | 0.000       | 0.000                                 | 0.000             | 0.000                | 0.000                            | 1C.17        |
| Provisions                               | -35.001     | -5.670                                | 0.000             | -5.670               | -40.671                          | 1C.18        |
| Total current liabilities                | -3,341.181  | 32.896                                | -12.082           | 44.978               | -3,296.203                       | 1C.19        |
| Net Current<br>assets/(liabilities)      | -693.801    | -0.265                                | -0.361            | 0.096                | -693.705                         | 1C.20        |
| Non-current liabilities                  |             |                                       |                   |                      |                                  |              |
| Trade & other payables                   | -921.630    | 940.300                               | 0.000             | 940.300              | 18.670                           | 1C.21        |
| Borrowings                               | -13,507.061 | -797.701                              | 0.000             | -797.701             | -14,304.762                      | 1C.22        |
| Financial instruments                    | -1,924.757  | 890.600                               | 0.000             | 890.600              | -1,034.157                       | 1C.23        |
| Retirement benefit obligations           | -182.000    | 0.000                                 | 0.000             | 0.000                | -182.000                         | 1C.24        |
| Provisions                               | -192.700    | 12.152                                | 0.000             | 12.152               | -180.548                         | 1C.25        |
| Deferred income – grants & contributions | 0.000       | -545.965                              | 0.000             | -545.965             | -545.965                         | 1C.26        |
| Deferred income -<br>adopted assets      | 0.000       | -365.085                              | 0.000             | -365.085             | -365.085                         | 1C.27        |
| Preference share capital                 | 0.000       | 0.000                                 | 0.000             | 0.000                | 0.000                            | 1C.28        |
| Deferred tax                             | -1,190.239  | 0.000                                 | 0.042             | -0.042               | -1,190.281                       | 1C.29        |
| Total non-current<br>liabilities         | -17,918.387 | 134.301                               | 0.042             | 134.259              | -17,784.128                      | 1C.30        |
| Net assets                               | 1,825.099   | -930.547                              | 383.482           | -1,314.029           | 511.070                          | 1C.31        |
| Equity                                   |             |                                       |                   |                      |                                  |              |
| Called up share capital                  | 29.000      | 0.000                                 | 0.000             | 0.000                | 29.000                           | 1C.32        |
| Retained earnings & other reserves       | 1,796.099   | -930.547                              | 383.482           | -1,314.029           | 482.070                          | 1C.33        |
| Total Equity                             | 1,825.099   | -930.547                              | 383.482           | -1,314.029           | 511.070                          | 1C.34        |

### Explanation of reconciling items:

Adjustments are made to the statutory numbers to ensure compliance with the Ofwat guidance detailed in RAG 3.14 and 4.11. The most significant include:

- Capitalised interest of £984.9m for borrowing costs is removed from fixed assets, offset by a £42.4m adjustment to write back depreciation on capitalised borrowing costs;
- Capital creditors of £241.1m are disclosed separately;

- A reclassification is made from current borrowings of £182.7m to trade and other payables in respect of accrued interest.
- A reclassification is made from financial instruments to non-current borrowings due to derivative financial liabilities (see below reconciliation); and,
- The non-appointed business shows retained earnings of £390.3m relating to BTL.

#### Borrowings reconciliation

| Appointed Activities (£m)   |            |
|---|------------|
| Current liabilities   |            |
| Current borrowings included in statutory accounts                               | 2,280.533  |
| Difference between statutory and regulatory definitions:                        |            |
| Lease Liability   | 7.298      |
| Accretion moved to borrowings from financial instruments                        | 53.392     |
| Accrued interest taken to trade and other payables                              | -182.693   |
| FX loss moved to borrowings from financial instruments                          | -19.398    |
| Current borrowings included in regulatory accounts (per Table 1C)               | 2,139.132  |
| Non-current liabilities   |            |
| Non-current borrowings included in statutory accounts                           | 13,457.362 |
| Difference between statutory and regulatory definitions:                        |            |
| Lease Liability   | 49.699     |
| Accretion moved to borrowings from financial instruments                        | 873.057    |
| FX loss moved to borrowings from financial instruments                          | -75.356    |
| Non-current borrowings included in regulatory accounts (per Table 1C)           | 14,304.762 |
| Total borrowings included in statutory accounts                                 | 15,737.895 |
| Total borrowings included in regulatory accounts (per Table 1C)                 | 16,443.894 |
| Add: Unamortised debt issuance costs, discount and IFRS 9 transition adjustment | 61.819     |
| Total borrowings included in regulatory accounts (Table 1E)                     | 16,505.713 |
|   |            |

## Table 1D: Statement of cashflows for 12 months ended 31 March 2023

|  |            | <b>T</b>                            |                   |                      |                                  |              |
|--|------------|-------------------------------------|-------------------|----------------------|----------------------------------|--------------|
| Line description<br>Units: £m                  | Statutory  | Differences<br>statutory<br>and RAG | Non-<br>appointed | Total<br>adjustments | Total<br>appointed<br>activities | RAG 4<br>Ref |
| Operating activities                           |            |                                     |                   |                      |                                  |              |
| Operating profit                               | 355.964    | -69.459                             | 84.302            | -153.761             | 202.203                          | 1D.1         |
| Other income                                   | 0.000      | 87.883                              | 1.031             | 86.852               | 86.852                           | 1D.2         |
| Depreciation                                   | 712.000    | -9.318                              | 0.000             | -9.318               | 702.682                          | 1D.3         |
| Amortisation – Grants & contributions          | 0.000      | 0.000                               | 0.000             | 0.000                | 0.000                            | 1D.4         |
| Changes in working capital                     | 9.067      | 0.000                               | -83.514           | 83.514               | 92.581                           | 1D.5         |
| Pension contributions                          | -6.530     | 6.701                               | 0.000             | 6.701                | 0.171                            | 1D.6         |
| Movement in provisions                         | 42.700     | -9.107                              | 0.000             | -9.107               | 33.593                           | 1D.7         |
| Profit on sale of fixed assets                 | 3.000      | 0.000                               | 0.000             | 0.000                | 3.000                            | 1D.8         |
| Cash generated from operations                 | 1,116.201  | 6.700                               | 1.819             | 4.881                | 1,121.082                        | 1D.9         |
| Net interest paid                              | 26.500     | -221.879                            | 0.000             | -221.879             | -195.379                         | 1D.10        |
| Tax paid                                       | 0.000      | 0.000                               | 0.000             | 0.000                | 0.000                            | 1D.11        |
| Net cash generated from operating activities   | 1,142.701  | -215.179                            | 1.819             | -216.998             | 925.703                          | 1D.12        |
| Investing activities                           |            |                                     |                   |                      |                                  |              |
| Capital expenditure                            | -1,598.400 | 215.179                             | 0.000             | 215.179              | -1,383.221                       | 1D.13        |
| Grants & Contributions                         | 0.000      | 0.000                               | 0.000             | 0.000                | 0.000                            | 1D.14        |
| Disposal of fixed assets                       | -7.000     | 0.000                               | 0.000             | 0.000                | -7.000                           | 1D.15        |
| Other  | 0.000      | 0.000                               | 0.000             | 0.000                | 0.000                            | 1D.16        |
| Net cash used in investing activities          | -1,605.400 | 215.179                             | 0.000             | 215.179              | -1,390.221                       | 1D.17        |
| Net cash generated before financing activities | -462.70    | 0                                   | 1.819             | -1.819               | -464.518                         | 1D.18        |
| Cashflows from financing activiti              | es         |                                     |                   |                      |                                  |              |
| Equity dividends paid                          | -45.2      | 0                                   | 0                 | 0.000                | -45.200                          | 1D.19        |
| Net loans received                             | 1,919.20   | 0                                   | 0                 | 0.000                | 1,919.200                        | 1D.20        |
| Cash inflow from equity financing              | 0          | 0                                   | 0                 | 0.000                | 0.000                            | 1D.21        |
| Net cash generated from financing activities   | 1,874.000  | 0.000                               | 0.000             | 0.000                | 1,874.000                        | 1D.22        |
| Increase (decrease) in net<br>cash             | 1,411.301  | 0.000                               | 1.819             | -1.819               | 1,409.482                        | 1D.23        |

#### Differences between statutory and RAG definitions

This table takes the information from the statement of cashflows from the statutory accounts and adjusts for the differences between IFRS and the RAGs as well as removing the cash flows of the non-appointed business to show the cash flows of our regulated business.

#### Explanation of reconciling items

- The cash flow has been prepared to align with the regulatory reporting format. As a result, the net cash position by activity (operating, investing and financing) does not agree to what has been presented in the statutory statement of cash flows;
- The difference is primarily due to the classification of all interest related balances including amounts capitalised in the statutory statement of financial position to the 'Net interest paid' category and interest costs relating to pensions; and
- Majority of movement in non-appointed working capital relates to cash paid over to BTL.

## Table 1E: Net debt analysis (appointed activities) at 31 March 2023

|   |       | Fixed     | Floating | Index li  | nked         |            | RAG 4 |
|---|-------|-----------|----------|-----------|--------------|------------|-------|
| Line description                                  | Units | rate      | rate     | RPI       | CPI<br>/CPIH | Total      | Ref   |
| Borrowings (excluding preference shares)          | £m    | 6,407.547 | 586.011  | 9,512.069 | 0.086        | 16,505.713 | 1E.1  |
| Preference share capital                          | £m    | 0.000     |          |           |              | 0.000      | 1E.2  |
| Total borrowings                                  | £m    | 6,407.547 | 586.011  | 9,512.069 | 0.086        | 16,505.713 | 1E.3  |
| Cash  | £m    |           |          |           |              | -5.119     | 1E.4  |
| Short term deposits                               | £m    |           |          |           |              | -1,824.197 | 1E.5  |
| Net Debt  | £m    |           |          |           |              | 14,676.397 | 1E.6  |
| Gearing   | %     |           |          |           |              | 77.468%    | 1E.7  |
| Adjusted Gearing                                  | %     |           |          |           |              | 77.403%    | 1E.8  |
| Full year equivalent nominal interest cost        | £m    | 251.899   | 38.072   | 1,489.825 | 0.001        | 1,779.797  | 1E.9  |
| Full year equivalent cash interest<br>payment     | £m    | 251.899   | 38.072   | 94.327    | -0.007       | 384.291    | 1E.10 |
| Indicative weighted average nominal interest rate | %     | 3.931%    | 6.497%   | 15.662%   | 1.163%       | 10.783%    | 1E.11 |
| Indicative weighted average cash<br>interest rate | %     | 3.931%    | 6.497%   | 0.992%    | -8.140%      | 2.328%     | 1E.12 |
| Weighted average years to maturity                | nr    | 8.991     | 3.528    | 23.443    | 0.377        | 12.168     | 1E.13 |

#### Notes for net debt analysis

- Instruments which change from fixed to floating during their life have been classified according to their interest rate characteristics as at 31 March 2023.
- The weighted average years to maturity is calculated as the multiple of the principal sum and years to maturity for each non-swap instrument (foreign currency debt incorporates the impact of cross currency swaps in line with Table 4B) divided by the principal sum outstanding as at 31 March according to RAG 4.11 Guideline.
- Adjusted gearing is the percentage of the Net debt (covenant basis) to the RCV. It is the measure used when assessing TWUL Group's gearing against the level stipulated in the whole business securitisation covenants.

# Table 1F: Financial flows for the 12 months ended 31 March 2023 and for the price review to date (2017-18 financial year average CPIH)

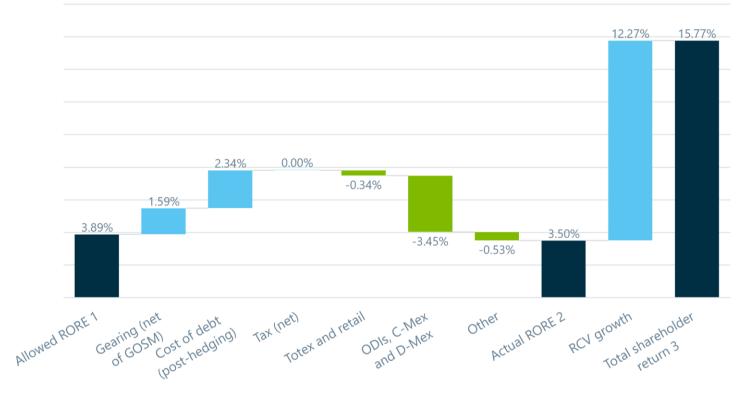
The tables show the various components of actual returns achieved for the current financial year and the average for AMP7 to date. The actual return has been benchmarked against the allowed return permitted under the regulatory regime.

All figures quoted are in 2017/18 real CPIH terms unless otherwise stated. Due to rounding, numbers presented may not add up precisely to the totals provided.

|   |    |   | 1   | 2 months ended                                       | 31 March 202  | 23  |  | Average 2020-25   |  |   |   |   |   |              |
|---|----|---|---|--|---|---|--|---|--|---|---|---|---|--------------|
| Line description  |    | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>notional<br>regulatory<br>equity | Actual returns<br>and actual<br>regulatory<br>equity | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>notional<br>regulatory<br>equity | Actual returns<br>and actual<br>regulatory<br>equity | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual returns<br>and notional<br>regulatory<br>equity | Actual<br>returns and<br>actual<br>regulatory<br>equity | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>actual<br>regulatory<br>equity | RAG 4<br>Ref |
| Regulatory equity   | £m | 6,140.748   | 6,140.748   | 3,166.257  |   |   |  | 5,878.500   | 5,878.500  | 2,760.908   |   |   |   | 1F.1         |
| Return on regulatory equity                                       | %  | 3.89%   | 2.00%   | 3.89%  | 238.733   | 123.094   | 123.094  | 3.90%   | 1.83%  | 3.90%   | 229.262   | 107.675   | 107.675   | 1F.2         |
| Impact of movement from notional gearing                          | %  |   | 1.88%   | 1.59%  |   | 115.639   | 50.422   |   | 2.07%  | 1.54%   |   | 121.586   | 48.883  | 1F.3         |
| Gearing benefits sharing  | %  |   | 0.00%   | 0.00%  |   | 0.000   | 0.000  |   | 0.00%  | 0.00%   |   | 0.000   | 0.000   | 1F.4         |
| Variance in corporation tax                                       | %  |   | 0.00%   | 0.00%  |   | 0.000   | 0.000  |   | -0.06%   | -0.11%  |   | -3.455  | -3.455  | 1F.5         |
| Group relief  | %  |   | 0.00%   | 0.00%  |   | 0.000   | 0.000  |   | 0.00%  | 0.00%   |   | 0.000   | 0.000   | 1F.6         |
| Cost of debt  | %  |   | 6.64%   | 17.00%   |   | 407.740   | 538.275  |   | 2.46%  | 6.29%   |   | 151.092   | 199.306   | 1F.7         |
| Hedging instruments   | %  |   | -5.73%  | -14.66%  |   | -351.648  | -464.226   |   | -2.20%   | -5.62%  |   | -135.261  | -178.007  | 1F.8         |
| Return on regulatory equity<br>including Financing<br>adjustments | %  | 3.89%   | 4.80%   | 7.82%  | 238.733   | 294.825   | 247.565  | 3.90%   | 4.10%  | 6.01%   | 229.262   | 241.637   | 174.353   | 1F.9         |
| Operational Performance   | •  |   |   |  |   |   |  |   |  |   |   |   |   |              |
| Totex out / (under)<br>performance                                | %  |   | 0.71%   | 1.38%  |   | 43.750  | 43.750   |   | 0.09%  | 0.17%   |   | 5.383   | 5.383   | 1F.10        |
| ODI out / (under)<br>performance                                  | %  |   | -1.50%  | -2.91%   |   | -92.190   | -92.190  |   | -0.88%   | -1.71%  |   | -54.071   | -54.071   | 1F.11        |
| C-Mex out / (under)<br>performance                                | %  |   | -0.26%  | -0.51%   |   | -16.032   | -16.032  |   | -0.18%   | -0.34%  |   | -10.897   | -10.897   | 1F.12        |
| D-Mex out / (under)<br>performance                                | %  |   | -0.02%  | -0.04%   |   | -1.125  | -1.125   |   | -0.02%   | -0.03%  |   | -0.995  | -0.995  | 1F.13        |

|  |       |   | 1:  | 2 months ended                                       | 31 March 202  | 23  |  | Average 2020-25   |  |   |   |   |   |              |
|--|-------|---|---|--|---|---|--|---|--|---|---|---|---|--------------|
| Line description                             |       | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>notional<br>regulatory<br>equity | Actual returns<br>and actual<br>regulatory<br>equity | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>notional<br>regulatory<br>equity | Actual returns<br>and actual<br>regulatory<br>equity | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual returns<br>and notional<br>regulatory<br>equity | Actual<br>returns and<br>actual<br>regulatory<br>equity | Notional<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>notional<br>regulatory<br>equity | Actual<br>returns and<br>actual<br>regulatory<br>equity | RAG 4<br>Ref |
| Retail out / (under)<br>performance          | %     |   | -0.89%  | -1.72%   |   | -54.537   | -54.537  |   | -0.94%   | -1.82%  |   | -57.479   | -57.479   | 1F.14        |
| Other exceptional items                      | %     |   | -0.27%  | -0.53%   |   | -16.714   | -16.714  |   | -0.28%   | -0.55%  |   | -17.261   | -17.261   | 1F.15        |
| Operational performance total                | %     |   | -2.23%  | -4.32%   |   | -136.849  | -136.849   |   | -2.20%   | -4.27%  |   | -135.320  | -<br>135.320  | 1F.16        |
| RoRE (return on regulatory equity)           | %     | 3.89%   | 2.57%   | 3.50%  | 238.733   | 157.976   | 110.716  | 3.90%   | 1.90%  | 1.73%   | 229.262   | 106.317   | 39.033  | 1F.17        |
| RCV growth                                   | %     | 12.27%  | 12.27%  | 12.27%   | 753.470   | 753.470   | 388.500  | 6.90%   | 6.90%  | 6.90%   | 405.617   | 405.617   | 190.503   | 1F.18        |
| Voluntary sharing<br>arrangements            | %     |   | 0.00%   | 0.00%  |   | 0.000   | 0.000  |   | 0.00%  | 0.00%   |   | 0.000   | 0.000   | 1F.19        |
| Total shareholder return                     | %     | 16.16%  | 14.84%  | 15.77%   | 992.203   | 911.446   | 499.216  | 10.80%  | 8.80%  | 8.63%   | 634.878   | 511.933   | 229.535   | 1F.20        |
| Dividends                                    |       |   |   |  |   |   |  |   |  |   |   |   |   |              |
| Gross Dividend                               | %     | 1.79%   | 0.62%   | 1.21%  | 109.919   | 38.285  | 38.285   | 2.90%   | 0.51%  | 1.09%   | 170.477   | 30.229  | 30.229  | 1F.21        |
| Interest Receivable on<br>Intercompany loans | %     |   | 0.65%   | 1.27%  |   | 40.200  | 40.200   |   | 0.34%  | 0.73%   |   | 20.113  | 20.113  | 1F.22        |
| Retained Value                               | %     | 14.37%  | 13.56%  | 13.29%   | 882.284   | 832.961   | 420.731  | 7.90%   | 7.94%  | 6.81%   | 464.402   | 461.591   | 179.193   | 1F.23        |
| Cash impact of 2015-20 p                     | erfor | mance adjust  | tments  |  |   |   |  |   |  |   |   |   |   |              |
| Totex out / under<br>performance             | %     |   | -0.30%  | -0.58%   |   | -18.490   | -18.490  |   | -0.21%   | -0.45%  |   | -12.288   | -12.288   | 1F.24        |
| ODI out / under<br>performance               | %     |   | -0.02%  | -0.03%   |   | -1.094  | -1.094   |   | -0.30%   | -0.63%  |   | -17.478   | -17.478   | 1F.25        |
| Total out / under<br>performance             | %     |   | -0.32%  | -0.62%   |   | -19.584   | -19.584  |   | -0.51%   | -1.08%  |   | -29.766   | -29.766   | 1F.26        |

### Notes for table 1F Breakdown of 2022/23 actual return



- 1. Based on notional capital structure.
- 2. Based on actual capital structure.
- 3. The Company does not have any voluntary sharing arrangements for AMP7.

The tables show the various components of actual returns achieved for the current financial year and the average for AMP7 to date. The actual return has been benchmarked against the allowed return permitted under the regulatory regime.

All figures quoted are in 2017/18 real CPIH terms unless otherwise stated. Due to rounding, numbers presented may not add up precisely to the totals provided.

 1F7: Calculated as the total cost of debt excluding hedging. 1F8 is calculated as the hedging impact, which now includes accretion on index-linked swaps. For consistency, the AMP to date average figures reflect restated FY21 and FY22 values which include the impact of accretion

- 1F10: In line with Ofwat guidance, unspent conditional allowance has been removed from this calculation. This has also been applied to FY21 and FY22 for calculating the average.
- 1F.19: Thames Water does not have any voluntary sharing arrangements for AMP7
- 1F.22: Relates to the interest income receivable by TWUL on the loans due from its immediate parent company, TWUHL. In 2022/23, no dividends were paid by TWUL to fund the interest payable by TWUHL. Cash interest payment of £55.7m was made to TWUL by TWUHL during 2022/23. For further details see note 13 of our Annual Report and Sustainability Report.

Our revenues are set according to a very detailed regulatory process which allows for the recovery of efficient costs plus a return for investors in the business. The purpose of financial flows is to provide greater transparency about the financial returns to our shareholders. The financial flows information allows a comparison between the returns under our actual capital structure and the returns set by the regulator under a notional capital structure which is 60% geared.

The total actual return to external shareholders is generally comprised of the base return set in the FD, outturn financial and operational performance compared to our allowances and targets, any retrospective adjustment set in the FD to reflect actual performance over 2015 to 2020, growth in the RCV arising from inflation and any voluntary sharing arrangements.

Overall total shareholder returns amount to 15.77% for 2022/23. 13.29 percentage points were retained in the business, with 1.21% being distributed to cover debt financing costs elsewhere in the group and the remaining 1.27% relating to interest income is due to TWUL from its immediate holding company, TWUHL.

Note that no dividends were paid out to TWUHL to fund this interest income to TWUL. Furthermore, for completeness, no dividends were paid by any group companies to our external shareholders. Please see the dividend policy section for further detail.

The actual RORE to shareholders of 3.50% is based on our actual capital structure and can be calculated by taking the allowed RORE (based on notional capital structure) and adjusting for the above financial and operational performance which amount to 7.82% and -4.32% respectively.

A breakdown of these components is set out in further detail below:

- For 2022/23, the FD has set our base return at 3.89% applicable to Ofwat's notional capital structure with a gearing of 60%;
- Our financing activities increased returns by 7.82% and can be attributed to the following elements:
  - Our cost of debt (unadjusted for hedging instruments) was lower than the allowance set by the FD, in real terms. This is shown in row 1F.7. This is mainly because c.39% of our debt is fixed in nominal terms, which provides the benefit of lower interest expense in a high inflation environment.
  - The observed outperformance observed in row 1F.7 is largely offset when adjusting for hedging instruments, as shown in 1F.8. This is driven by the significant swap accretion incurred during the year (arising from inflation), offset slightly by swap income.
  - It is noted that reporting guidance was updated in FY23 to explicitly require companies to show the impact of swap accretion in 1F.8. In previous years this amount was disclosed in a footnote but not included in the 1F.8 calculations.
  - Given the materiality of this change, for consistency the AMP7 Average to date has been re-calculated so that FY21 and FY22 also include the impact of swap accretion. As a result, the average combined cost of debt performance (the sum of 1F7 and 1F8) for the AMP to date is 0.67%.
- The impact of hedging instruments presented in Table 1F is consistent with financial derivatives set out in Table 4B which includes various inflation linked swaps and interest rate swaps. Note that the cost of debt (unadjusted for

hedging instruments) includes the impact of cross currency swaps

- Our average gearing of 79.21% during the financial year is lower than in FY22 which is higher than the 60% assumed by Ofwat for a notional company. The higher gearing amplifies the percentage return to external shareholder, because debt has a lower required return than equity on a notional basis. Another impact of higher gearing levels is that it increases the volatility of external shareholder returns, which become proportionately more sensitive to levels of out- or under-performance. We are responsible for financing our business as efficiently as possible. Our financing structure, the Whole of Business Securitisation, offers additional protections to debt investors enabling us to have higher levels of debt than would otherwise be the case without reducing our creditworthiness. These investor protections place clear limits on permitted operational and financing activities undertaken by the Company and also protect customers' interests. All additional risk associated with having a higher level of debt remains with our external shareholders and is not transferred to customers.
- In AMP7, Ofwat introduced a Gearing Outperformance Sharing Mechanism ("GOSM") which has the effect of sharing the impact of higher gearing on returns with customers. As with FY22, for FY23 our outturn cost of debt, calculated under Ofwat's methodology, exceeded the allowed cost of equity in nominal terms. This was due to the significantly higher rate of outturn inflation than forecast under the FD. A positive value was therefore calculated based on the Ofwat GOSM mechanism.
- A value of 0 has been recorded in the table for FY23 in line with Ofwat's

guidance for population of this table. It is noted that the mechanism as defined in the Ofwat Gearing Outperformance Sharing model results in a positive value of £45.1million. This would be equivalent to an additional 1.42% of return not reflected in this table based on the actual structure.

- The cumulative impact of the Gearing Outperformance Sharing Mechanism for AMP7 to date is now in a net-reward position, due to positive outturns for both FY22 and FY23. In line with Ofwat guidance, a value of zero has therefore been recorded. Absent this guidance to offset the positive impact for the purpose of this table, an additional 0.23% of return would have been recognised.
- There was no impact from the overall net tax performance during the year.
- Our operational performance decreased returns for the financial year by 4.32% which is due to various factors:
- We outperformed our wholesale totex largely due to the timing of our expenditure in water networks and water resources.
- The impact of un-utilised conditional allowances has been removed from the calculation. As of FY23, £26.002m of the £284.158m AMP-to-Date conditional allowances have been spent. We expect these to materially ramp up over the remaining years of AMP7 in line with the timings agreed with Ofwat under our gateway reviews.
- Taking into account these adjustments, totex performance remained positive and increased returns by 1.38%
- Retail spend remains above our allowance as we continue to invest in service improvement. As this additional spend is not shared with customers, this

reduced returns by 1.72%. On a net basis after customer sharing, the impact of wholesale totex and retail spend reduced returns by 0.34%;

- Over the remainder of AMP7 we continue to plan to spend materially above the levels set under our FD as we continue to strive to improve our customer service which would materially reduce actual RORE versus allowed RORE, all else being equal;
- The business has incurred material ODI penalties of £92.190m as we under-performed overall against the challenging targets set by the FD, particularly in relation to mains repairs, water quality compliance, and water supply interruptions. This reduced returns by 2.91%;
- Whilst we have seen ongoing improvements, we continue to see underperformance on customer measures, C-MeX and D-MeX. There was an overall penalty amount of £17.2m which has reduced returns by 0.54%

- Other exceptional items relate to land sales, pollution fines and customer compensation claims. Refer to Table 2L for further details of land sales.
- Inflation, namely the average yearly growth in CPIH, increases RCV growth by 12.27%;
- We do not have any voluntary sharing arrangements for AMP7; and
- The 2015-20 adjustment reflects the trueups under the FD for the total out-/underperformance in AMP6 for totex and ODIs, which are reflected in our allowed revenues for AMP7. The reduction of 0.62% is predominantly driven by the leakage rebate levied as a result of our leakage under-performance in AMP6.

# Average return for AMP7 (2020/21 to 2022/23)

Our average RORE for AMP7 to date is 1.73% compared to the allowed RORE of 3.89%, with financing outperformance offset by operational performance.

### Accounting policies

#### Basis of preparation

Our disclosures in this Annual Performance Report have been prepared on a going concern basis and in accordance with the Regulatory Accounting Guidelines ("RAGs") issued by Ofwat, which are based on IFRS as adopted by the UK Endorsement Board, as applied in our Annual Report and clarified within the Ofwat query process.

The following are key differences between Regulatory Accounting Guidelines and accounting policies reported in our Annual Report, these are explained further in the policy notes:

- Reclassification of certain costs and incomes to align with regulatory presentation requirements.
- Revenue recognition (IFRS 15) in relation to bad debts; and
- Capitalisation of borrowing costs (IAS 23).

### **Revenue recognition**

Revenue represents income receivable from regulated water and wastewater activities. For regulatory reporting purposes, Ofwat requires a deviation from IFRS15 whereby revenue for amounts billed and deemed uncollectable in the current year are recognised within operating costs in the Annual Performance Report (instead of a direct reduction to revenue as required by IFRS15).

The difference between the amount recorded as revenue in the statutory accounts and the amount recorded as revenue in the regulatory accounts was £65.382m for the year ended 31 March 2023, as shown in the below table. The differences between revenue reported in the Annual Report and the Annual Performance Report (Table 1A) can be summarised as follows:

|  | £m        |
|--|-----------|
| Statutory revenue  | 2,265.205 |
| Bad debt reclassified to opex                              | 68.307    |
| Reclassification of sludge cake sales to opex              | -0.808    |
| Reclassification of grants & contributions to other income | -2.117    |
| Non appointed income                                       | -104.450  |
| Appointed revenue  | 2,226.137 |

Revenue includes an estimate of the amount of water and wastewater charges unbilled at the year end. This accrual is estimated using a defined methodology based on a measure of unbilled water consumed by tariff, calculated from historical billing information. There are no material changes to the methodology applied in the current period.

## Price control segments

Price controls relate to specific products and services which we provide to customers. The following price controls are applicable during the financial year:

- Water network plus: transport and storage of raw water, treatment and distribution of water to our customers through our water network;
- Wastewater network plus: our sewer network, treatment of sewage and treatment of sludge liquors;
- Water resources: abstracting raw water;
- Bioresources: the transport, treatment and disposal of sludge;

- Retail Household: provides certain customer-facing activities including billing and revenue collection for household customers;
- Retail Non-Household: On 1 April 2017, we transferred our non-household customers to Castle Water Limited, and ceased to act as non-household retailer, however we continue to recognise wholesale revenue from these customers via third-party nonhousehold retailers.
- Thames Tideway Tunnel: responsible for the construction of interface works to the Thames Tideway Tunnel.

We allocate all costs either directly or indirectly in accordance with 'RAG2.09 – Guideline for classification of costs across the price controls'. The full details of how costs have been allocated is within our Accounting Methodology Statement which can be found on our website

There are no significant changes in our allocation methodology in the current period.

Financial information within our finance system (SAP) is recorded by expenditure type within specific cost centres. Where possible, operating costs are attributed at the lowest level within the cost centre hierarchy i.e., the relevant process level appropriate to the type of cost and price control. However, certain costs are recorded at a higher level in the cost centre hierarchy where they do not specifically relate to a process or if the cost is a support related cost.

We use a cloud-based business modelling and planning application (SAP Analytics Cloud) to produce the operating expenditure component of our regulatory tables. SAP remains the primary financial accounting and management tool used by the business and is the source of the data used in SAP Analytics Cloud.

Where possible, capital expenditure and associated depreciation are directly attributed to one of the price controls. Where this is not possible, as an asset is used by more than one of the price controls, the capital expenditure and depreciation are reported in the price control where the service of principal use occurs with a recharge for use, equivalent to depreciation, being made to the other price controls reflecting the proportion of the asset used by them.

# Occupied household properties policy

An occupier is any person who owns a premises or who has agreed with the Company to pay water and sewerage services in respect of the premises. No bills are raised in the name of "the occupier", other than in the circumstances outlined in the 'Unoccupied properties policy' section below. The property management process is followed to identify whether the property is occupied or not. The property management process consists of the following:

- Mailings;
- Customer contacts;
- Meter reading for metered properties;
- Land registry checks; and
- Credit reference agency data.

# Unoccupied household properties policy

Revenue is not recognised in respect of unoccupied properties. Properties are classified as unoccupied when:

- A new property has been connected but is unoccupied and unfurnished;
- We have been informed that the customer has left the property;
- It is unfurnished and not expected to be reoccupied immediately;
- It has been disconnected following a customer request;
- The identity of the customer is unknown; and
- We have been informed that the customer is in a care home, in long term hospitalisation, in prison or overseas long-term.

The Company only raises bills in the name of the 'occupier' when it has evidence that a property is occupied but cannot confirm the name of the occupier. When the Company identifies the occupant, the bill is cancelled and re-billed in the customer's name. If the Company has not identified an occupant within six months the bill is cancelled, and the property is classified as empty.

When a property is classified as unoccupied, a defined process is followed to verify when the property becomes occupied and/or obtain the name of the customer in order to initiate billing. The residency confirmation process comprises a number of steps which include using external and internal information for desktop research to confirm the property status (occupied/empty) and, where possible, to identify the occupier's name.

The property will only cease to be classified as unoccupied when a named customer is identified and billed. The Company does not recognise income in respect of empty properties. If the Company has turned off the supply of water at the mains to a property at a customer's request, then water supply charges are not payable.

A customer may request the supply to be turned off in instances such as the property is to be demolished or where a house previously converted into flats (and additional supplies made) is to be converted back into a house.

If the occupier's name is not obtained at this point, the property will remain classified as unoccupied, and the residency confirmation process will be re-started after one to six months. If these steps confirm that a property appears to be empty, then the supply may be turned off.

The following activities are undertaken to check properties classified as unoccupied are in fact not occupied:

- Where the customer has left a property and it is expected to be occupied by someone else, a welcome letter is sent to the property explaining to the occupier how to register as the new account holder;
- Where there is no response to the welcome letter within two months a further letter is sent to the property explaining that the property has been classified as void and may be scheduled for disconnection as a result;
- Meter readings are taken for metered unoccupied properties and where consumption is recorded a letter is sent to the property; and
- Inspections are organised throughout the year to check for occupancy status.

## New household properties

All new properties are metered. Charges accrue from the date at which the meter is installed. The developer is billed between the date of connection and first occupancy, and this is recognised as revenue.

If the developer is no longer responsible for the property and no new occupier has been identified, the property management process referred to above is followed to identify the new occupier. Until the new occupier has been identified the property is treated as unoccupied and is not billed.

# Household disconnections policy

Premises listed in Schedule 4A of the Water Industry Act 1991 (e.g. any dwelling occupied by a person as his or her only or principal home) cannot be disconnected for non-payment of charges. However, the following provisions do apply in respect of any disconnections:

- If the water supply to any premises is disconnected for any reason, but we continue to provide sewerage services to those premises, the customer will be charged the appropriate Sewerage Unmeasured Tariff unless it can be demonstrated that the premises will be unoccupied for the period that the premises are disconnected, in which case there is no charge. Revenue is recognised for sewerage services up to the point we are aware the property becomes unoccupied;
- If it is found subsequently that the premises were occupied for any period when we were advised that the premises would be unoccupied, the appropriate Sewerage Unmeasured Tariff will then apply to that period and appropriate retrospective bills are

raised, and revenue recognised at that point; and

In the event that we suspect that a property is occupied but we have no record of the occupier, we take steps to establish the identity of the occupier in order that billing can commence, and revenue be recognised. Occupier is defined to include any person who owns premises as set out in the 'Occupied properties policy' above and also any person who has agreed with us to pay water supply and/or sewerage charges in respect of any premises (e.g. a Bulk Meter Agreement).

# Metered sales accrual ("MSA") reconciliation: Retrospective review of household measured income accrual

Appointed income for the year ended 31 March 2022 included a measured income accrual of £197.8m. The value of billing subsequently recognised in the year ended 31 March 2023 for consumption in the prior year was £198.7m (total of £200.7m less £2.0m still in accrual). This has resulted in an increase in the current year's revenue due to the under-estimation of the prior year's measured income accrual:

| MSA                    | £m      | £m      | Unwind  | £m    | £m      |
|------------------------|---------|---------|---|-------|---------|
|                        |         |         |   | 173.6 |         |
| System Accrual - Main  | 177.564 |         | Billed  | 00    |         |
| System Accrual - WS/WH | (3.112) |         | Still in accrual                                    | 2.048 |         |
| Active to Empty        |         |         | Empty to Active                                     | 5.823 |         |
| System Accrual         |         | 174.452 |   |       | 181.471 |
| Excluded (Capped at 2  |         |         |   |       |         |
| yrs)                   | 10.991  |         |   |       |         |
| Excluded Provision     | (2.198) |         |   |       |         |
| Excluded Provision     | (1.626) |         |   |       |         |
| Excluded               |         | 7.167   | Excluded  |       | 16.434  |
| New Accounts           |         | 1.815   | New Accounts  |       | 0.635   |
| Management Judgement   |         | 13.030  |   |       |         |
| Subtotal               |         | 196.464 | Subtotal  |       | 198.540 |
|                        |         |         |   |       |         |
| Re-registered in       |         |         | Re-registered in                                    |       |         |
| Household              |         | 1.325   | Household   |       | 1.665   |
|                        |         |         | Customer switching<br>from unmeasured<br>to metered |       | 0.562   |
| Total Accrual          |         | 197.789 |   |       | 200.767 |

### Bad debt

The Group applies the IFRS9 simplified approach to measuring expected credit losses which uses a lifetime expected loss allowance for all trade receivables, contract assets and insurance claims receivable. The Group's assessment for calculating expected credit losses is explained below. In addition, management has considered the ongoing cost of living challenges, and has increased the provision to reflect the expected adverse impact on customers' ability to pay their water and wastewater bills.

During the year ended 31 March 2023, we have seen an increase in our overall bad debt cost. The increase is primarily due to a reduction in cash collection rates and increase in cancel / rebill recoverability provision. Our total bad debt charge equates to 3.9% (31 March 2022: 3.0%) of total gross revenue.

### Capitalisation

The regulatory accounts policy on Property, Plant and Equipment ("PP&E") follows the statutory accounting policies with the exception of borrowing costs. No changes have been made to this policy since the prior reporting period.

In the statutory accounts, borrowing costs directly attributable to the acquisition, construction or production of a qualifying asset that necessarily takes a substantial period of time to get ready for its intended use or sale are capitalised as part of the cost of the associated asset. All other borrowing costs are included as finance expenses within the income statement.

For regulatory reporting purposes borrowing costs may not be capitalised. The regulatory approach, which differs from IAS 23, results in an additional £215.2m being recognised in interest expense and £9.3m decrease in depreciation within the regulatory accounts for 2022/23.

## Directly billed

A bad debt model is used to calculate the provision for directly billed customers. This uses performance in the year to determine the level of provision required. The model takes the closing receivables balance and then deducts the amounts that are expected to be collected or cancelled based on performance in the year.

The amount that remains will be uncollectable and therefore needs to be covered by a bad debt provision. Debt that is older than 4 years is fully provided for. There are also provisions to cover billing that is cancelled and not rebilled and also the collectability of any rebilling and a bad debt provision against unbilled debtors i.e., debts that have not been billed yet but are part of the metered sales accrual.

Using the output of the model together with management's judgement of expected performance in the future, a management judgement is formed regarding the level of provision required for future credit losses

## Directly Billed Write Off Policy

Our bad debt write-off policy has remained unchanged and has been consistently applied in the current year. Debt is only written off after all available economic options for collecting the debt have been exhausted and the debt has been deemed to be uncollectable. This may be because the debt is impossible, impractical, inefficient or uneconomic to collect.

Situations where this may arise and where debt may be written off are as follows:

- Where the customer has absconded without paying and strategies to trace their whereabouts and collect outstanding monies have been fully exhausted;
- Where the customer has died without leaving an estate or has left an insufficient estate on which to levy execution;

- Where the value of the debt makes it uneconomic to pursue – all debts of less than £5 are written off;
- Where the age of the debt exceeds the statute of limitations – all debts of greater than 6 years old are written off, taking into account usual business rules;
- Where county court proceedings and attempts to recover the debt-by-debt collection agencies (multiple in some cases) have proved unsuccessful including where the customer does not have any assets/has insufficient assets on which to levy execution; and
- Where the customer has been declared bankrupt, is in liquidation or is subject to insolvency proceedings or a debt relief order and no dividend has been or is likely to be received.

For debt to be written off there must be a legitimate charge against the debtor and no reasonable expectation of recovery. Disclosure is made for information regarding financial assets that are written off but are still subject to enforcement activity.

### Water Only Companies

A provision is also made against debts held by WOCs who bill their customers for sewerage services on behalf of the Group. Since detailed information about the debt held on our behalf by the WOCs is limited, we use an average of two data points when calculating the provisions – WOC Statutory Accounts and TW directly billed ("DB") provision rates - taking a single data point is not appropriate as collection rates, write-off and provisioning policies, differ from company to company.

Where provision rates have been provided by the WOCs this has been used as it accurately reflects the provision required to cover future write-offs. In addition, Management has considered the impact of cost of living increases and has created a provision to reflect the expected adverse impact on customers' ability to pay their water and wastewater bills.

### BTL

The arrangement with BTL means the Group has included construction costs of the Thames Tideway Tunnel within its bills to wastewater customers. As cash is collected, these amounts are subsequently paid to BTL. This arrangement gives rise to the recognition of revenue within the Group and associated bad debt.

The bad debt methodology is consistent with directly billed customers.

### Non-Household

The Group has assessed the risk of credit losses for non-household customers to be low and therefore no bad debt provision has been made.

## Appointed profit before tax reconciliation

| Operating profit:  | £m       |
|--|----------|
| Statutory operating profit                                   | 355.964  |
| Reclassification of grants and contributions to other income | -79.820  |
| Reclassification of rental income to other income            | -7.343   |
| Capitalised borrowings depreciation                          | 9.318    |
| Derecognition of innovation fund provision                   | 9.105    |
| Reclassification of capital income to other income           | -0.720   |
| Non appointed  | -84.302  |
| Appointed operating profit                                   | 202.202  |
| Other income:  |          |
| Statutory other income                                       | 0.000    |
| Reclassification of grants and contributions to other income | 79.820   |
| Reclassification of rental income to other income            | 7.343    |
| Reclassification of capital income to other income           | 0.720    |
| Non appointed  | -1.031   |
| Appointed other income                                       | 86.852   |
| Profit before tax:   |          |
| Statutory profit before tax                                  | 1.849    |
| Capitalised borrowings                                       | -205.861 |
| Derecognition of innovation fund provision                   | 9.107    |
| Non appointed  | -85.336  |
| Regulatory profit before tax                                 | -280.241 |

## Current tax reconciliation 2022/23

| Line description<br>Units: £m   | Total     | Non-<br>appointed | Appointed |
|---|-----------|-------------------|-----------|
| Profit / (loss) before tax and fair value movements   | (120.494) | 85.333            | (205.827) |
| Differences between statutory and regulatory definitions - mainly interest not shown as capitalised | (196.757) | -                 | (196.757) |
| Profit/(loss) on ordinary activities before taxation as shown for regulatory purposes               | (317.251) | 85.333            | (402.584) |
| Tax at 19%  | (60.278)  | 16.213            | (76.491)  |
| Charge / (Credit) effects of:   |           |                   |           |
| Depreciation on assets that do not qualify for relief   | 4.743     | -                 | 4.743     |
| Disallowable expenditure 53   | 5.112     | -                 | 5.112     |

<sup>53</sup> Disallowable expenditure primarily relates to fines included in operating expenses.

#### Thames Water Annual Performance Report 2022/23

| Line description<br>Units: £m   | Total     | Non-<br>appointed | Appointed |
|---|-----------|-------------------|-----------|
| Profit / (loss) before tax and fair value movements   | (120.494) | 85.333            | (205.827) |
| Non-taxable income 54   | (7.641)   | -                 | (7.641)   |
| Property disposals  | 0.195     | -                 | 0.195     |
| Capital allowances including "super deductions", for the year lower than depreciation <sup>55</sup>                         | 82.232    | 0.011             | 82.221    |
| Capitalised borrowing costs allowable for tax 56  | (40.884)  | -                 | (40.884)  |
| Losses / (profits) on financial derivatives 57  | (159.341) | -                 | (159.341) |
| Pension cost charge (lower than)/ in excess of pension contributions  | 0.019     | -                 | 0.019     |
| Other short term timing differences   | (5.028)   | -                 | (5.028)   |
| Tax losses carried forward <sup>58</sup>  | 24.096    | -                 | 24.096    |
| Differences between statutory and regulatory definitions - mainly capitalised interest                                      | 37.384    | -                 | 37.384    |
| Differences between statutory and regulatory definitions - Fair value gains/(losses) on financial instruments <sup>59</sup> | 23.245    | -                 | 23.245    |
|   | (96.146)  | 16.224            | (112.370) |
| Group relief not paid at standard rate <sup>60</sup>  | -         | (16.224)          | 16.224    |
| Charge/(credit) in respect of group relief for the year   | (96.146)  | -                 | (96.146)  |
| Adjustments in respect of prior periods – group relief  | 4.989     | 5.753             | (0.764)   |
| Total current tax charge/(credit) on profit/(loss) on ordinary activities   | (91.157)  | 5.753             | (96.910)  |
| Current tax for current year  | -96.146   |                   |           |
| Current tax for prior year  | 4.989     |                   |           |
| Total current tax   | -91.157   |                   |           |
|   |           |                   |           |

<sup>&</sup>lt;sup>54</sup> Non-taxable income relates primarily to income from new service connections. This income is reflected in the accounts as non-taxable income under IFRS principles, while the cost of the new service connections fixed assets is not eligible for capital allowances.

<sup>&</sup>lt;sup>55</sup> In the current year, capital allowances claimed were lower than depreciation in order to minimise tax losses arising in year.

<sup>&</sup>lt;sup>56</sup> Capitalised borrowing costs are eligible for a full tax deduction in the year.

<sup>&</sup>lt;sup>57</sup> Accounting fair value profits and losses arising on our derivatives are predominantly non-taxable and nondeductible respectively, as instead they are usually taxed as the cash flows arise. Deferred tax is provided on all temporary differences.

<sup>&</sup>lt;sup>58</sup> This year, the Group has a tax loss, most of which will be sold as group relief to group companies at the standard rate of corporation tax of 19%, resulting in a current tax credit. Some tax losses are being carried forward for use against future taxable profits; this reduces the current tax credit recognised in the year at 19%, and instead a deferred tax asset has been recognised at 25% on the losses carried forward (see Note 20 in the statutory accounts).

<sup>&</sup>lt;sup>59</sup> Fair value gains on financial instruments of £122.343m are booked in the statutory accounts but are not included in "Profit/(loss) on ordinary activities before taxation as shown for regulatory purposes" above.

<sup>&</sup>lt;sup>60</sup> The appointed business is sharing tax losses worth £16.224m with the non-appointed business, for which no payment is made, as both are within the same company.

| Tax charged in the income statement<br>Units £m                  | Total   | Non-<br>appointed | Appointed |
|--|---------|-------------------|-----------|
| UK Corporation tax charge/(credit)                               | -91.157 | 5.753             | -96.910   |
| Deferred tax charge/(credit) including impact of tax rate change | 123.053 | -0.015            | 123.068   |
| Tax charge/(credit) on profit on ordinary activities             | 31.896  | 5.738             | 26.158    |

| Reconciliation to total current tax charge allowed in price limits<br>Units: £m | Appointed |
|---|-----------|
| Current tax charge allowed in price limits                                      | 0.000     |
| Charge(credit) in respect of group relief for the year                          | -96.146   |
| Credit in respect of group relief for prior years                               | -0.764    |
| Total current tax charge/ (credit) on profit on ordinary activities             | -96.910   |

The group relief credit of £91.157m comprises a tax credit of £96.910m for the appointed business less a charge of £5.753m being a prior year adjustment arising in the non-appointed business.

The tax credit of £96.910m in the appointed business comprises £96.146m in respect of tax losses to be provisionally sold to group companies as group relief for the current year, at the standard rate of tax, and a prior year credit of £0.764m.

Section 2 Price review and other segmental reporting

# Table 2A: Segmental income statement for the 12 months ended 31 March 2023

This table provides information of our appointed business split by the price control units defined by Ofwat.

Further information regarding performance by price control units can be found in table 2C (retail cost analysis), 4D and 4E (wholesale totex) and our Accounting Methodology Statement on our website.

| Line description<br>Units: £m                                 | Residential retail | Business<br>retail | Water<br>resources | Water<br>Network+ | Wastewater<br>Network+ | Bio-<br>resources | TTT    | Total      | RAG 4<br>Ref |
|---|--------------------|--------------------|--------------------|-------------------|------------------------|-------------------|--------|------------|--------------|
| Revenue - price<br>control                                    | 129.888            | 1.270              | 97.996             | 878.059           | 855.046                | 182.742           | 58.793 | 2,203.794  | 2A.1         |
| Revenue - non<br>price control                                | 0.000              | 0.000              | 0.000              | 12.802            | 9.541                  | 0.000             | 0.000  | 22.343     | 2A.2         |
| Operating<br>expenditure -<br>excluding PU<br>recharge impact | -187.528           | 0.000              | -77.279            | -495.551          | -487.510               | -70.189           | -6.429 | -1,324.486 | 2A.3         |
| PU opex recharge  | -4.508             | 0.000              | -0.845             | -10.156           | 12.404                 | 3.105             | 0.000  | 0.000      | 2A.4         |
| Operating<br>expenditure -<br>including PU<br>recharge impact | -192.036           | 0.000              | -78.124            | -505.707          | -475.106               | -67.084           | -6.429 | -1,324.486 | 2A.5         |
| Depreciation -<br>tangible fixed<br>assets                    | -3.833             | 0.000              | -8.013             | -335.448          | -212.675               | -77.075           | -2.647 | -639.691   | 2A.6         |
| Amortisation -<br>intangible fixed<br>assets                  | -19.639            | 0.000              | -0.374             | -8.822            | -34.512                | -0.364            | 0.000  | -63.711    | 2A.7         |
| Other operating income  | 6.828              | 0.000              | -0.103             | -0.784            | -1.416                 | -0.232            | -0.339 | 3.954      | 2A.8         |
| Operating profit  | -78.792            | 1.270              | 11.382             | 40.100            | 140.878                | 37.987            | 49.378 | 202.203    | 2A.9         |
| Surface water drain   | age rebates        |                    |                    |                   |                        |                   |        |            |              |
| Surface water<br>drainage rebates                             |                    |                    |                    |                   |                        |                   |        | 2.914      | 2A.10        |

# Table 2B: Totex analysis for the 12 months ended 31 March 2023 – wholesale

This table shows the breakdown of the wholesale totex expenditure from table 2A into the wholesale price control units and cost categories required to be reported on by Ofwat.

| Line description  | Motor           | Water     | Maatawatar             | Bio-      |       |           | RAG 4        |
|---|-----------------|-----------|------------------------|-----------|-------|-----------|--------------|
| Line description<br>Units: £m   | Water resources | Network+  | Wastewater<br>Network+ | resources | TTT   | Total     | RAG 4<br>Ref |
| Base operating expend   |                 | Trotwont? | The work of the        | 100001000 |       |           |              |
| Power   | 26.120          | 84.128    | 128.865                | -12.588   | 0.000 | 226.525   | 2B.1         |
| Income treated as negative expenditure  | -0.250          | 0.107     | -0.015                 | -18.493   | 0.000 | -18.651   | 2B.2         |
| Service charges/<br>discharge consents  | 23.579          | 0.000     | 5.322                  | 1.550     | 0.000 | 30.451    | 2B.3         |
| Bulk Supply/Bulk<br>discharge   | 4.894           | 0.000     | 2.966                  | 0.000     | 0.000 | 7.860     | 2B.4         |
| Renewals expensed<br>in year<br>(Infrastructure)  | 0.000           | 94.160    | 75.192                 | 0.000     | 0.000 | 169.352   | 2B.5         |
| Renewals expensed<br>in year (Non-<br>Infrastructure)                                     | 0.000           | 0.000     | 0.000                  | 0.000     | 0.000 | 0.000     | 2B.6         |
| Other operating<br>expenditure<br>(including location<br>specific costs &<br>obligations) | 18.547          | 245.463   | 214.307                | 96.116    | 6.429 | 580.862   | 2B.7         |
| Local authority and<br>Cumulo rates   | 3.324           | 68.000    | 43.670                 | 0.499     | 0.000 | 115.493   | 2B.8         |
| Total base operating expenditure  | 76.214          | 491.858   | 470.307                | 67.084    | 6.429 | 1,111.892 | 2B.9         |
| Other operating expen   | diture          |           |                        |           |       |           |              |
| Enhancement<br>operating expenditure  | 1.910           | 8.198     | 2.619                  | 0.000     | 0.000 | 12.727    | 2B.10        |
| Developer services<br>operating expenditure   | 0.000           | 5.651     | 2.180                  | 0.000     | 0.000 | 7.831     | 2B.11        |
| Total operating<br>expenditure excluding<br>third party services                          | 78.124          | 505.707   | 475.106                | 67.084    | 6.429 | 1,132.450 | 2B.12        |
| Third party services  | 0.000           | 0.000     | 0.000                  | 0.000     | 0.000 | 0.000     | 2B.13        |
| Total operating expenditure   | 78.124          | 505.707   | 475.106                | 67.084    | 6.429 | 1,132.450 | 2B.14        |
| Grants and contributio  | ns              |           |                        |           |       |           |              |
| Grants and<br>contributions -<br>operating expenditure                                    | 0.000           | 0.608     | 2.225                  | 0.000     | 0.000 | 2.833     | 2B.15        |
| Capital expenditure   |                 |           |                        |           |       |           |              |
| Base capital<br>expenditure   | 17.213          | 446.928   | 352.505                | 91.859    | 1.923 | 910.428   | 2B.16        |

| Line description<br>Units: £m   | Water resources | Water<br>Network+ | Wastewater<br>Network+ | Bio-<br>resources | TTT                  | Total     | RAG 4<br>Ref |
|---|-----------------|-------------------|------------------------|-------------------|----------------------|-----------|--------------|
| Enhancement capital expenditure   | 18.599          | 154.245           | 199.104                | 9.442             | 32.619 <sup>61</sup> | 414.009   | 2B.17        |
| Developer services capital expenditure                                  | 0.000           | 69.688            | 23.312                 | 0.000             | 0.000                | 93.000    | 2B.18        |
| Total gross capital<br>expenditure<br>excluding third party<br>services | 35.812          | 670.861           | 574.921                | 101.301           | 34.542               | 1,417.437 | 2B.19        |
| Third party services  | 0.000           | 0.000             | 0.000                  | 0.000             | 0.000                | 0.000     | 2B.20        |
| Total gross capital<br>expenditure                                      | 35.812          | 670.861           | 574.921                | 101.301           | 34.542               | 1,417.437 | 2B.21        |
| Grants and contributions  |                 |                   |                        |                   |                      |           |              |
| Grants and<br>contributions - capital<br>expenditure                    | 0.000           | 48.422            | 40.820                 | 0.000             | 0.000                | 89.242    | 2B.22        |
| Net totex   | 113.936         | 1,127.538         | 1,006.982              | 168.385           | 40.971               | 2,457.812 | 2B.23        |
| Cash expenditure  |                 |                   |                        |                   |                      |           |              |
| Pension deficit recovery<br>payments                                    | 0.000           | 0.000             | 0.000                  | 0.000             | 0.000                | 0.000     | 2B.24        |
| Other cash items  | 0.000           | 0.000             | 0.000                  | 0.000             | 0.000                | 0.000     | 2B.25        |
| Totex including cash items  | 113.936         | 1,127.538         | 1,006.982              | 168.385           | 40.971               | 2,457.812 | 2B.26        |

<sup>61</sup> There is a difference of £48m between TTT capex reported in table 2D and 2B due to the capitalisation of investment property impairment cost.

## Table 2C: Cost analysis for the 12 months ended 31 March 2023 - retail

This table breaks down the retail operating costs included in table 2A into the cost categories required to be reported on by Ofwat.

| Line description<br>Units: £m  | Residential | Business | Total   | RAG 4<br>Ref |
|--|-------------|----------|---------|--------------|
| Operating expenditure  |             |          |         |              |
| Customer services  | 70.333      | 0.000    | 70.333  | 2C.1         |
| Debt management  | 18.229      | 0.000    | 18.229  | 2C.2         |
| Doubtful debts   | 89.731      | 0.000    | 89.731  | 2C.3         |
| Meter reading  | 7.482       | 0.000    | 7.482   | 2C.4         |
| Services to developers   |             | 0.000    | 0.000   | 2C.5         |
| Other operating expenditure  | 1.356       | 0.000    | 1.356   | 2C.6         |
| Local authority and Cumulo rates   | 0.397       | 0.000    | 0.397   | 2C.7         |
| Total operating expenditure excluding third party services   | 187.528     | 0.000    | 187.528 | 2C.8         |
| Depreciation   |             |          |         |              |
| Depreciation (tangible fixed assets) on assets existing at 31 March 2015   | 0.143       | 0.000    | 0.143   | 2C.9         |
| Depreciation (tangible fixed assets) on assets acquired after 1 April 2015                                       | 3.690       | 0.000    | 3.690   | 2C.10        |
| Amortisation (intangible fixed assets) on assets existing at 31 March 2015                                       | 0.000       | 0.000    | 0.000   | 2C.11        |
| Amortisation (intangible fixed assets) on assets acquired after 1 April 2015                                     | 19.639      | 0.000    | 19.639  | 2C.12        |
| Recharges  |             |          |         |              |
| Recharge from wholesale for legacy assets principally<br>used by wholesale<br>(assets existing at 31 March 2015) | 0.000       | 0.000    | 0.000   | 2C.13        |
| Income from wholesale for legacy assets principally used by retail (assets existing at 31 March 2015)            | 0.000       | 0.000    | 0.000   | 2C.14        |
| Recharge from wholesale assets acquired after<br>1 April 2015 principally used by wholesale                      | 4.508       | 0.000    | 4.508   | 2C.15        |
| Income from wholesale assets acquired after<br>1 April 2015 principally used by retail                           | 0.000       | 0.000    | 0.000   | 2C.16        |
| Net recharges costs  | 4.508       | 0.000    | 4.508   | 2C.17        |
| Total retail costs excluding third party and pension deficit repair costs  | 215.508     | 0.000    | 215.508 | 2C.18        |
| Third party services operating expenditure   | 0.000       | 0.000    | 0.000   | 2C.19        |
| Pension deficit repair costs   | 0.000       | 0.000    | 0.000   | 2C.20        |
| Total retail costs including third party and pension deficit repair costs  | 215.508     | 0.000    | 215.508 | 2C.21        |
| Debt written off   |             |          |         |              |
| Debt written off   | 79.241      | 0.000    | 79.241  | 2C.22        |
| Capital expenditure  |             |          |         |              |
| Capital expenditure  | 11.006      | 0.000    | 11.006  | 2C.23        |
|  |             |          |         |              |

| Line description<br>Units: £m   | Residential           | Business         | Total RAG 4<br>Ref   |
|---|-----------------------|------------------|----------------------|
| Other operating expenditure includes the net retail expendit are part funded by wholesale | ture for the followin | g household reta | ail activities which |
| Demand-side water efficiency - gross expenditure  | 2.958                 |                  | 2C.24                |
| Demand-side water efficiency - expenditure funded by wholesale                            | 2.958                 |                  | 2C.25                |
| Demand-side water efficiency - net retail expenditure                                     | 0.000                 |                  | 2C.26                |
| Customer-side leak repairs - gross expenditure  | 7.055                 |                  | 2C.27                |
| Customer-side leak repairs - expenditure funded by wholesale                              | 7.055                 |                  | 2C.28                |
| Customer-side leak repairs - net retail expenditure                                       | 0.000                 |                  | 2C.29                |
| Comparison of actual and allowed expenditure  |                       |                  |                      |
| Cumulative actual retail expenditure to reporting year end                                | 594.357               |                  | 2C.30                |
| Cumulative allowed expenditure to reporting year end                                      | 467.400               |                  | 2C.31                |
| Total allowed expenditure 2020-25   | 837.844               |                  | 2C.32                |

Total operating costs for retail household was £215.5m in 2022/23. This is £45m higher than the allowed residential expenditure in the FD; and £25m higher than 2021/22.

2022/23 expenditure increase is mainly driven by increased doubtful debt charge which is as a result of lower debt collection rates (driven by macro headwinds like: increase in cost of living and inflation) and increased cancel rebill recoverability provision for unmeasured customers.

We saw some efficiencies in customer service, debt management and meter reading costs as a result of reduced customer complaints, efficient internal restructure and continuous rollout of smart meters respectively.

Household customer figures in region have increased from 5.5 million in 2021/22 to 5.7 million in current year.

Thames Water exited the Non household Retail market at Market Opening in April 2017.

### Table 2D: Historic cost analysis of tangible fixed assets at 31 March 2023

This table shows the changes in the fixed assets across our price control units. Our accounting policies with relation to fixed assets and depreciation are set out in full in our Annual Report. The net book value includes £2,275.9m in respect of assets in the course of construction.

| Line description                 | Residential | Business | Water     | Water      | Wastewater | Bio-      |           |            | RAG 4 |
|----------------------------------|-------------|----------|-----------|------------|------------|-----------|-----------|------------|-------|
| Units: £m                        | Retail      | Retail   | resources | Network+   | Network+   | resources | TTT 62    | Total      | ref   |
| Cost                             |             |          |           |            |            |           |           |            |       |
| At 1 April 2022                  | 111.379     | 0        | 369.464   | 11,164.830 | 9,084.675  | 1,725.931 | 1,260.432 | 23,716.711 | 2D.1  |
| Disposals                        | 0           | 0        | -0.039    | -1.339     | -1.365     | -0.087    | 0         | -2.830     | 2D.2  |
| Additions                        | 0.207       | 0        | 35.525    | 666.637    | 548.824    | 94.655    | 34.557    | 1,380.405  | 2D.3  |
| Adjustments                      | -0.514      | 0        | -11.366   | 13.014     | 22.248     | -32.856   | -0.466    | -9.940     | 2D.4  |
| Assets adopted at nil cost       | 0           | 0        | 0         | 24.631     | 54.461     | 0         | 0         | 79.092     | 2D.5  |
| At 31 March 2023                 | 111.072     | 0        | 393.584   | 11,867.773 | 9,708.843  | 1,787.643 | 1,294.523 | 25,163.438 | 2D.6  |
| Depreciation                     |             |          |           |            |            |           |           |            |       |
| At 1 April 2022                  | -83.302     | 0        | -82.908   | -3,493.613 | -2,931.363 | -798.927  | -11.664   | -7,401.777 | 2D.7  |
| Disposals                        | 0           | 0        | 0.013     | 0.838      | 0.478      | 0.126     | 0         | 1.455      | 2D.8  |
| Adjustments                      | 2.575       | 0        | 0.279     | -2.126     | -2.873     | -4.461    | 2.677     | -3.929     | 2D.9  |
| Charge for year                  | -3.833      | 0        | -8.013    | -335.448   | -212.675   | -77.075   | -2.647    | -639.691   | 2D.10 |
| At 31 March 2023                 | -84.560     | 0        | -90.629   | -3,830.349 | -3,146.433 | -880.337  | -11.634   | -8,043.942 | 2D.11 |
| Net book amount at 31 March 2023 | 26.512      | 0.000    | 302.955   | 8,037.424  | 6,562.410  | 907.306   | 1,282.889 | 17,119.496 | 2D.12 |
| Net book amount at 1 April 2022  | 28.077      | 0.000    | 286.556   | 7,671.217  | 6,153.312  | 927.004   | 1,248.768 | 16,314.934 | 2D.13 |
| Depreciation charge for year     |             |          |           |            |            |           |           |            |       |
| Principal services               | -3.833      | 0.000    | -8.013    | -334.824   | -212.528   | -77.075   | -2.647    | -638.920   | 2D.14 |
| Third party services             | 0.000       | 0.000    | 0.000     | -0.623     | -0.146     | 0.000     | 0.000     | -0.769     | 2D.15 |
| Total                            | -3.833      | 0.000    | -8.013    | -335.447   | -212.674   | -77.075   | -2.647    | -639.689   | 2D.16 |
|                                  |             |          |           |            |            |           |           |            |       |

<sup>62</sup> An amount of £50m relating to an Investment property is included in the gross cost within the TTT column.

### Table 2E: Analysis of 'grants and contributions' for the 12 months ended 31 March 2023 – water resources, water network+ and wastewater network+

This table shows information on capital contributions made by organisations and the related cost of assets constructed.

| Line description   | Fully recognised in | Capitalised<br>and amortised | Fully      |        | RAG 4 |
|--|---------------------|------------------------------|------------|--------|-------|
| Units: £m  | income              | (in income                   | netted off | Total  | Ref   |
|  | statement           | statement)                   | capex      |        |       |
| Grants and contributions - water resources                               | ;                   |                              |            |        |       |
| Diversions - s185  | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.1  |
| Other contributions (price control)                                      | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.2  |
| Price control grants and contributions                                   | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.3  |
| Diversions - NRSWA   | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.4  |
| Diversions - other non-price control                                     | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.5  |
| Other contributions (non-price control)                                  | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.6  |
| Total grants and contributions   | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.7  |
| Value of adopted assets  | 0.000               | 0.000                        |            | 0.000  | 2E.8  |
| Grants and contributions - water network+                                |                     |                              |            |        |       |
| Connection charges   | 17.731              | 0.000                        | 0.000      | 17.731 | 2E.9  |
| Infrastructure charge receipts – new connections                         | 0.000               | 11.521                       | 0.000      | 11.521 | 2E.10 |
| Requisitioned mains  | 4.769               | 0.000                        | 0.000      | 4.769  | 2E.11 |
| Diversions - s185  | 2.515               | 0.000                        | 0.000      | 2.515  | 2E.12 |
| Other contributions (price control)                                      | 0.000               | 0.000                        | 0.000      | 0.000  | 2E.13 |
| Price control grants and contributions before deduction of income offset | 25.015              | 11.521                       | 0.000      | 36.536 | 2E.14 |
| Income offset  | 0.000               | 2.956                        | 0.000      | 2.956  | 2E.15 |
| Price control grants and contributions after deduction of income offset  | 25.015              | 8.565                        | 0.000      | 33.580 | 2E.16 |
| Diversions - NRSWA   | 1.340               | 0.000                        | 0.000      | 1.340  | 2E.17 |
| Diversions - other non-price control                                     | 3.195               | 0.000                        | 0.000      | 3.195  | 2E.18 |
| Other contributions (non-price control)                                  | 10.894              | 0.044                        | 0.000      | 10.938 | 2E.19 |
| Total grants and contributions   | 40.444              | 8.609                        | 0.000      | 49.053 | 2E.20 |
| Value of adopted assets  | 0.000               | 24.533                       | 0.000      | 24.533 | 2E.21 |
| Grants and contributions - wastewater network                            | vork+               |                              |            |        |       |
| Receipts for on-site work  | 0.361               | 0.000                        | 0.000      | 0.361  | 2E.22 |
| Infrastructure charge receipts – new connections                         | 0.000               | 13.390                       | 0.000      | 13.390 | 2E.23 |
| Diversions - s185  | 0.368               | 0.000                        | 0.000      | 0.368  | 2E.24 |
| Other contributions (price control)                                      | 1.839               | 0.000                        | 0.000      | 1.839  | 2E.25 |
|  |                     |                              |            |        |       |

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| Line description<br>Units: £m  | Fully<br>recognised in<br>income<br>statement | Capitalised<br>and amortised<br>(in income<br>statement) | Fully<br>netted off<br>capex | Total   | RAG 4<br>Ref |  |  |  |  |
|--|---|--|------------------------------|---------|--------------|--|--|--|--|
| Price control grants and contributions before deduction of income offset | 2.568   | 13.390   | 0.000                        | 15.958  | 2E.26        |  |  |  |  |
| Income offset  | 0.000   | 0.512  | 0.000                        | 0.512   | 2E.27        |  |  |  |  |
| Price control grants and contributions after deduction of income offset  | 2.568   | 12.878   | 0.000                        | 15.446  | 2E.28        |  |  |  |  |
| Diversions - NRSWA   | 0.296   | 0.000  | 0.000                        | 0.296   | 2E.29        |  |  |  |  |
| Diversions - other non-price control                                     | 11.999  | 0.000  | 0.000                        | 11.999  | 2E.30        |  |  |  |  |
| Other Contributions (non-price control)                                  | 14.264  | 1.040  | 0.000                        | 15.304  | 2E.31        |  |  |  |  |
| Total grants and contributions   | 29.127  | 13.918   | 0.000                        | 43.045  | 2E.32        |  |  |  |  |
| Value of adopted assets  | 0.000   | 53.739   | 0.000                        | 53.739  | 2E.33        |  |  |  |  |
| Movements in capitalised grants and contributions                        |   |  |                              |         |              |  |  |  |  |
| b/f  | 0.000   | 204.839  | 329.726                      | 534.565 | 2E.34        |  |  |  |  |
| Capitalised in year  | 0.000   | 8.609  | 13.918                       | 22.527  | 2E.35        |  |  |  |  |
| Amortisation (in income statement)                                       | 0.000   | -3.064   | -2.399                       | -5.463  | 2E.36        |  |  |  |  |
| c/f  | 0.000   | 210.384  | 341.245                      | 551.629 | 2E.37        |  |  |  |  |
|  |   |  |                              |         |              |  |  |  |  |

## Table 2F: Residential retail for the 12 months ended 31 March 2023

This table shows an analysis of household retail revenues and customer numbers by customer type.

| Line description                              | Revenue<br>£m | Number of<br>customers<br>000s | Average<br>residential<br>revenues<br>£ | RAG<br>4 Ref |
|---|---------------|--------------------------------|---|--------------|
| Residential revenue                           |               |                                |   |              |
| Wholesale revenue                             | 1,671.024     |                                |   | 2F.1         |
| Retail revenue                                | 129.888       |                                |   | 2F.2         |
| Total residential revenue                     | 1,800.912     |                                |   | 2F.3         |
| Retail revenue                                |               |                                |   |              |
| Revenue Recovered ('RR')                      | 129.888       |                                |   | 2F.4         |
| Revenue sacrifice                             | 0.000         |                                |   | 2F.5         |
| Actual revenue (net)                          | 129.888       |                                |   | 2F.6         |
| Customer information                          |               |                                |   |              |
| Actual customers ('AC')                       |               | 5,711.124                      |   | 2F.7         |
| Reforecast customers                          |               | 5,728.954                      |   | 2F.8         |
| Adjustment                                    |               |                                |   |              |
| Allowed revenue ('R)                          | 122.469       |                                |   | 2F.9         |
| Net adjustment                                | -7.419        |                                |   | 2F.10        |
| Other residential information                 |               |                                |   |              |
| Average household retail revenue per customer |               |                                | 22.743                                  | 2F.11        |

## Table 2G: Non-household water - revenues by tariff type

This table is only applicable for Welsh companies and therefore have not been included within this report.

## Table 2H: Non-household wastewater - revenues by tariff type

This table is only applicable for Welsh companies and therefore have not been included within this report.

## Table 2I: Revenue analysis for the 12 months ended 31 March 2023

This table shows an analysis of revenue across our price control units split by revenue streams.

| Measured         367.622         201.061         568.683         57.096         511.588         568.684         50.137         0.152         5         568.684         568.684         568.684         568.684         568.684         568.684         50.152         0.137         0.152         5         568.684         568.684         568.684         568.684         568.659         97.996         878.059         976.055         5           Wholesale charge - wastewater         Unmeasured - foul charges         295.560         6.721         302.281         249.053         53.228         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.281         302.371         302.371 | RAG<br>4 Ref |
|---|--------------|
| Measured367.622201.061568.68357.096511.588568.684568.684Third party revenue0.0000.1520.1520.0150.1370.1525Total wholesale water<br>revenue767.726208.329976.05597.996878.059976.055Wholesale charge – wastewater295.5606.721302.281249.05353.228302.281Unmeasured - foul<br>charges295.5606.721302.281249.05353.228302.2815Unmeasured - surface<br>water charges56.1571.21457.37147.26910.10257.3715Unmeasured - highway<br>  |              |
| Third party revenue0.0000.1520.1520.0150.1370.1522Total wholesale water<br>revenue767.726208.329976.05597.996878.059976.05597Wholesale charge - wastewaterUnmeasured - foul<br>charges295.5606.721302.281249.05353.228302.28122Unmeasured - surface<br>water charges56.1571.21457.37147.26910.10257.37127Unmeasured - highway<br>drainage charges34.7060.74435.45029.2076.24235.44922Measured - foul charges338.967147.516486.483400.82085.664486.48422Measured - highway<br>drainage charges79.47515.32294.79778.10416.69394.79722Measured - highway<br>drainage charges49.95010.31460.26449.65210.61260.26422   | 21.1         |
| Total wholesale water<br>revenue767.726208.329976.05597.996878.059976.05597Wholesale charge – wastewaterUnmeasured - foul<br>charges295.5606.721302.281249.05353.228302.281302.281Unmeasured - surface<br>water charges56.1571.21457.37147.26910.10257.371302.449Unmeasured - highway<br>drainage charges34.7060.74435.45029.2076.24235.44933.44933.449Measured - foul charges338.967147.516486.483400.82085.664486.48433.44934.797Measured - foul charges338.967147.516486.483400.82085.664486.48433.44934.797Measured - foul charges338.967147.516486.483400.82085.664486.48434.797Measured - foul charges79.47515.32294.79778.10416.69394.79734.797Measured - highway<br>drainage charges49.95010.31460.26449.65210.61260.26424.797  | 21.2         |
| revenue       767.726       208.329       976.055       97.996       878.059       976.055       976.055         Wholesale charge – wastewater       Unmeasured - foul<br>charges       295.560       6.721       302.281       249.053       53.228       302.281       302.281         Unmeasured - surface<br>water charges       56.157       1.214       57.371       47.269       10.102       57.371       57.371         Unmeasured - highway<br>drainage charges       34.706       0.744       35.450       29.207       6.242       35.449       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448       36.448   | 21.3         |
| Unmeasured - foul<br>charges295.5606.721302.281249.05353.228302.2812Unmeasured - surface<br>water charges56.1571.21457.37147.26910.10257.3712Unmeasured - highway<br>drainage charges34.7060.74435.45029.2076.24235.4492Measured - foul charges338.967147.516486.483400.82085.664486.4842Measured - surface<br>water charges79.47515.32294.79778.10416.69394.7972Measured - highway<br>drainage charges49.95010.31460.26449.65210.61260.2642  | 21.4         |
| charges295.5606.721302.281249.05353.228302.281Unmeasured - surface<br>water charges56.1571.21457.37147.26910.10257.37157.371Unmeasured - highway<br>drainage charges34.7060.74435.45029.2076.24235.44957.371Measured - foul charges338.967147.516486.483400.82085.664486.48457.371Measured - surface<br>water charges79.47515.32294.79778.10416.69394.79757.371Measured - highway<br>drainage charges49.95010.31460.26449.65210.61260.2642  |              |
| water charges       56.157       1.214       57.371       47.269       10.102       57.371       57.371         Unmeasured - highway<br>drainage charges       34.706       0.744       35.450       29.207       6.242       35.449       57.371         Measured - foul charges       338.967       147.516       486.483       400.820       85.664       486.484       57.371         Measured - surface<br>water charges       79.475       15.322       94.797       78.104       16.693       94.797       57.371         Measured - highway<br>drainage charges       49.950       10.314       60.264       49.652       10.612       60.264       2   | 21.5         |
| drainage charges       34.706       0.744       35.450       29.207       6.242       35.449       35.450       486.483       400.820       85.664       486.484       35.450       35.449       35  | 21.6         |
| Measured - surface<br>water charges79.47515.32294.79778.10416.69394.79723Measured - highway<br>drainage charges49.95010.31460.26449.65210.61260.26423   | 21.7         |
| water charges         79.475         15.322         94.797         78.104         16.693         94.797         78.104           Measured - highway         49.950         10.314         60.264         49.652         10.612         60.264         2   | 21.8         |
| drainage charges 49.950 10.314 60.264 49.652 10.612 60.264 2  | 21.9         |
| Third party revenue         0.000         1.142         1.142         0.941         0.201         1.142         2   | 21.10        |
|   | 21.11        |
| Total wholesale854.815182.9731,037.788855.046182.7421,037.7882  | 21.12        |
| Wholesale charge – TTT  |              |
|   | 21.13        |
|   | 21.14        |
| revenue   | 21.15        |
| Wholesale Total         1,671.024         401.612         2,072.636         2   | 21.16        |
| Retail revenue  |              |
|   | 21.17        |
|   | 21.18        |
| Retail third party<br>revenue0.0000.0000.0002   | 21.19        |
|   | 21.20        |
| Third party revenue - non-price control   | _11.20       |
|   | 21.21        |
| Bulk supplies   |              |
| wastewater 2.722  | 21.22        |
| Other third-party revenue - 10.737  | 21.23        |
| Principal services - non-price control  |              |
| Other appointed 0.360 22  | 21.24        |
|   | 21.25        |

# Table 2J: Infrastructure network reinforcement costs for the 12 months ended 31 March 2023

This table presents the infrastructure reinforcement costs, as included in totex in tables 4D and 4E by type of system or facility.

| Line description<br>Units: £m                         | Network<br>reinforcement capex | On site / site<br>specific capex | RAG 4<br>Ref |  |  |  |  |  |  |
|---|--------------------------------|----------------------------------|--------------|--|--|--|--|--|--|
| Wholesale water network+ (treated water distribution) |                                |                                  |              |  |  |  |  |  |  |
| Distribution and trunk mains                          | 16.077                         | 0.000                            | 2J.1         |  |  |  |  |  |  |
| Pumping and storage facilities                        | 0.359                          | 0.000                            | 2J.2         |  |  |  |  |  |  |
| Other   | 0.000                          | 0.000                            | 2J.3         |  |  |  |  |  |  |
| Total   | 16.436                         | 0.000                            | 2J.4         |  |  |  |  |  |  |
| Wholesale wastewater network+ (sewage of              | collection)                    |                                  |              |  |  |  |  |  |  |
| Foul and combined systems                             | 5.549                          | 0.000                            | 2J.5         |  |  |  |  |  |  |
| Surface water only systems                            | 0.000                          | 0.000                            | 2J.6         |  |  |  |  |  |  |
| Pumping and storage facilities                        | 6.650                          | 0.000                            | 2J.7         |  |  |  |  |  |  |
| Other   | 0.000                          | 0.000                            | 2J.8         |  |  |  |  |  |  |
| Total   | 12.199                         | 0.000                            | 2J.9         |  |  |  |  |  |  |

# Table 2K: Infrastructure charges reconciliation for the 12 months ended 31 March 2023

This table compares the revenue and costs of infrastructure charges for new connections.

| Line description<br>Units: £m               | Water   | Wastewater | Total   | RAG 4<br>Ref |
|---|---------|------------|---------|--------------|
| Infrastructure charges                      | 11.956  | 14.777     | 26.733  | 2K.1         |
| Discounts applied to infrastructure charges | 0.000   | 0.000      | 0.000   | 2K.2         |
| Gross Infrastructure charges                | 11.956  | 14.777     | 26.733  | 2K.3         |
| Variance brought forward                    | -2.875  | 17.104     | 14.229  | 2K.4         |
| Revenue                                     | 11.956  | 14.777     | 26.733  | 2K.5         |
| Costs                                       | -16.436 | -12.199    | -28.635 | 2K.6         |
| Variance carried forward                    | -7.355  | 19.682     | 12.327  | 2K.7         |

Disclosed as infrastructure charges within the above table are contributions from other sources that are considered to be their equivalent, though are disclosed on separate lines within Table 2E. This includes the non-domestic Network Charges at a value of £1.083m.

Additionally, disclosed as infrastructure charges within the above table are the non-domestic Network Charges from the prior year at a value of £0.7m. These were excluded from the prior year and hence have been included as a catch-up adjustment to ensure that the calculation of the cumulative value in this table is consistent with previous years methods.

For the 2022/23 financial year we began offering an environmental discount scheme to incentivise more sustainable housing. However, we consider this scheme to be part of balance of charges principle replacing our previous income offset mechanism. It is not considered when setting our infrastructure charges. As such we have not deducted it from gross infrastructure charges in the table above. Instead, this has been presented within the Income Offset in Table 2E (line 2.15 & 2.27).

# Table 2L: Analysis of land sales for the 12 months ended 31 March 2023

This table shows information on income received through the sale of land

| Line description<br>Units: £m                          | Water<br>resources | Water<br>Network+ | Wastewater<br>Network+ | TTT   | Total | RAG 4<br>Ref |
|--|--------------------|-------------------|------------------------|-------|-------|--------------|
| Land sales – proceeds from disposals of protected land | 0.000              | 0.000             | 0.006                  | 0.000 | 0.006 | 2L.1         |

There was a disposal of 1 parcel of land during the year which was below the threshold for reporting to Ofwat.

# Table 2M: Revenue reconciliation for the 12 months ended 31 March 2023 – wholesale

This table shows the retail price control difference between the actual revenue recovered and the revenue assumed at the final determination.

| Line description<br>Units: £m  | Water<br>resources | Water<br>network+ | Wastewater<br>network+ | Bio-<br>resources | TTT    | Total     | RAG 4<br>Ref |  |  |
|--|--------------------|-------------------|------------------------|-------------------|--------|-----------|--------------|--|--|
| Revenue recognised   |                    |                   |                        |                   |        |           |              |  |  |
| Wholesale revenue governed by price control                                  | 97.996             | 878.059           | 855.046                | 182.742           | 58.793 | 2,072.636 | 2M.1         |  |  |
| Grants & contributions (price control)                                       | 0.000              | 33.580            | 15.446                 | 0.000             | 0.000  | 49.026    | 2M.2         |  |  |
| Total revenue governed by wholesale price control                            | 97.996             | 911.639           | 870.492                | 182.742           | 58.793 | 2,121.662 | 2M.3         |  |  |
| Calculation of the revenue cap   |                    |                   |                        |                   |        |           |              |  |  |
| Allowed wholesale revenue before adjustments (or modified by CMA)            | 98.560             | 878.987           | 837.916                | 176.297           | 57.541 | 2,049.301 | 2M.4         |  |  |
| Allowed grants & contributions<br>before adjustments (or modified<br>by CMA) | 0.000              | 40.886            | 18.317                 | 0.000             | 0.000  | 59.203    | 2M.5         |  |  |
| Revenue adjustment   | 1.413              | 19.455            | 36.143                 | 7.467             | 2.547  | 67.025    | 2M.6         |  |  |
| Other adjustments  | 0.000              | 0.000             | 0.000                  | 0.000             | 0.000  | 0.000     | 2M.7         |  |  |
| Revenue cap  | 99.973             | 939.328           | 892.376                | 183.764           | 60.088 | 2,175.529 | 2M.8         |  |  |
| Calculation of the revenue imbalance   |                    |                   |                        |                   |        |           |              |  |  |
| Revenue cap  | 99.973             | 939.328           | 892.376                | 183.764           | 60.088 | 2,175.529 | 2M.9         |  |  |
| Revenue Recovered  | 97.996             | 911.639           | 870.492                | 182.742           | 58.793 | 2,121.662 | 2M.10        |  |  |
| Revenue imbalance  | 1.977              | 27.689            | 21.884                 | 1.022             | 1.295  | 53.867    | 2M.11        |  |  |
|  |                    |                   |                        |                   |        |           |              |  |  |

Wholesale revenue for 2022/23 of £2,121.7m is £53.9m (2.5%) lower than the amount allowed in Ofwat's in-period outcome delivery incentives final determinations.

Wholesale water revenue is  $\pounds 29.7m$  (2.9%) and wholesale wastewater revenue (including the Company's delivered element of the Thames Tideway Tunnel) is  $\pounds 24.2m$  (2.1%) lower than the allowance. The causes of the lower revenue in both cases are:

- lower core tariff revenue from household customers, as a result of metered consumption being lower than originally anticipated; and
- lower than forecast capital contributions from connection and infrastructure charge revenue due to cost-of-living pressures reducing activity levels in the house building industry.

This is offset to some extent by higher core tariff revenue from wholesale non-household customers, due to higher than anticipated levels of consumption as businesses increased activity levels as the recovery from the pandemic continued.

The unrecovered revenue in 2022/23 attributable to variances in our customer base between outturn and the forecasts used when tariffs were set will be recovered from customers during the 2024/25 charging year under Ofwat's Revenue Forecasting Incentive ("RFI") mechanism.

## Table 2N: Residential retail - social tariffs

This table shows the social tariffs and other forms of assistance we provide to improve affordability and accessibility for vulnerable customers.

| Line description  | Revenue<br>£m | Number of<br>customers<br>000s | Average<br>amount per<br>customer<br>£ | RAG 4<br>Ref |
|---|---------------|--------------------------------|--|--------------|
| Number of residential customers on social tariffs   |               |                                |  |              |
| Residential water only social tariffs customers   |               | 0.660                          |  | 2N.1         |
| Residential wastewater only social tariffs customers  |               | 84.789                         |  | 2N.2         |
| Residential dual service social tariffs customers   |               | 202.573                        |  | 2N.3         |
| Number of residential customers not on social tariffs   |               |                                |  |              |
| Residential water only no social tariffs customers  |               | 49.763                         |  | 2N.4         |
| Residential wastewater only no social tariffs customers   |               | 1,963.059                      |  | 2N.5         |
| Residential dual service no social tariffs customers  |               | 3,445.023                      |  | 2N.6         |
| Social tariff discount  |               |                                |  |              |
| Average discount per water only social tariffs customer   |               |                                | 72.727                                 | 2N.7         |
| Average discount per wastewater only social tariffs customer  |               |                                | 99.482                                 | 2N.8         |
| Average discount per dual service social tariffs customer   |               |                                | 210.808                                | 2N.9         |
| Social tariff cross-subsidy - residential customers   |               |                                |  |              |
| Total customer funded cross-subsidies for water only social tariffs customers                             | 0.048         |                                |  | 2N.10        |
| Total customer funded cross-subsidies for wastewater only social tariffs customers                        | 8.435         |                                |  | 2N.11        |
| Total customer funded cross-subsidies for dual service social tariffs customers                           | 42.704        |                                |  | 2N.12        |
| Average customer funded cross-subsidy per water only social tariffs customer                              |               |                                | 0.952                                  | 2N.13        |
| Average customer funded cross-subsidy per<br>wastewater only social tariffs customer                      |               |                                | 4.119                                  | 2N.14        |
| Average customer funded cross-subsidy per dual service social tariffs customer                            |               |                                | 11.707                                 | 2N.15        |
| Social tariff cross-subsidy – company   |               |                                |  |              |
| Total revenue forgone by company to fund cross-<br>subsidies for water only social tariffs customers      | 0.000         |                                |  | 2N.16        |
| Total revenue forgone by company to fund cross-<br>subsidies for wastewater only social tariffs customers | 0.000         |                                |  | 2N.17        |
| Total revenue forgone by company to fund cross-<br>subsidies for dual service social tariffs customers    | 0.000         |                                |  | 2N.18        |
| Average revenue forgone by company to fund cross-<br>subsidy per water only social tariffs customer       |               |                                | 0.000                                  | 2N.19        |
| Average revenue forgone by company to fund cross-<br>subsidy per wastewater only social tariffs customer  |               |                                | 0.000                                  | 2N.20        |

| Line description  | Revenue<br>£m | Number of<br>customers<br>000s | Average<br>amount per<br>customer<br>£ | RAG 4<br>Ref |
|---|---------------|--------------------------------|--|--------------|
| Average revenue forgone by company to fund cross-<br>subsidy per dual service social tariffs customer |               |                                | 0.000                                  | 2N.21        |
| Social tariff support - willingness to pay <sup>63</sup>  |               |                                |  |              |
| Level of support for social tariff customers reflected in business plan                               |               |                                | 8.406                                  | 2N.22        |
| Maximum contribution to social tariffs supported by customer engagement                               |               |                                | 12.329                                 | 2N.23        |

## Use of social tariffs (RAG 3, 4.47)

We support our low-income households with the WaterHelp social tariff. If customers qualify, we offer a 50% discount on their whole bill. Further information is available on our website.

<sup>&</sup>lt;sup>63</sup> Note that the level of support and maximum contribution to social tariffs as set out on lines 2N.22 and 2N.23 above, do not take into account additional customer engagement that was carried out in the autumn of 2022. The additional support obtained through this customer engagement did not feature in our setting of charges for 2022-23 but did feature in our 2023-24 charges. As such, the additional support will be reported for the first time in our Annual Performance Report for 2023-24.

## Table 20: Historic cost analysis of intangible fixed assets

This table shows the value of fixed assets across our price control units.

| Line description<br>Units: £m          | Residentia<br>I Retail | Business<br>Retail | Water<br>Resources | Water<br>Network+ | Wastewater<br>Network+ | Bio-<br>resources | ттт   | Total    | RAG 4<br>Ref |
|--|------------------------|--------------------|--------------------|-------------------|------------------------|-------------------|-------|----------|--------------|
| Cost                                   |                        |                    |                    |                   |                        |                   |       |          |              |
| At 1 April 2022                        | 167.287                | 0.000              | 2.103              | 54.474            | 263.565                | 6.401             | 0.000 | 493.830  | 20.1         |
| Disposals                              | 0.000                  | 0.000              | 0.000              | 0.000             | -0.600                 | -0.600            | 0.000 | -1.200   | 20.2         |
| Additions                              | 10.799                 | 0.000              | 0.287              | 4.224             | 26.061                 | 6.646             | 0.000 | 48.017   | 20.3         |
| Adjustments                            | -1.976                 | 0.000              | -0.099             | 1.638             | 4.313                  | -6.250            | 0.000 | -2.374   | 20.4         |
| Assets adopted at nil cost             | 0.000                  | 0.000              | 0.000              | 0.000             | 0.000                  | 0.000             | 0.000 | 0.000    | 20.5         |
| At 31 March<br>2023                    | 176.110                | 0.000              | 2.291              | 60.336            | 293.339                | 6.197             | 0.000 | 538.273  | 20.6         |
| Amortisation                           |                        |                    |                    |                   |                        |                   |       |          |              |
| At 1 April 2022                        | -45.007                | 0.000              | -1.588             | -29.895           | -128.056               | -16.154           | 0.000 | -220.700 | 20.7         |
| Disposals                              | 0.000                  | 0.000              | 0.000              | 0.000             | 0.450                  | 0.450             | 0.000 | 0.900    | 20.8         |
| Adjustments                            | 0.000                  | 0.000              | 0.101              | 1.275             | -7.740                 | 6.389             | 0.000 | 0.025    | 20.9         |
| Charge for year                        | -19.639                | 0.000              | -0.374             | -8.822            | -34.512                | -0.364            | 0.000 | -63.711  | 20.10        |
| At 31 March<br>2023                    | -64.646                | 0.000              | -1.861             | -37.442           | -169.858               | -9.679            | 0.000 | -283.486 | 20.11        |
| Net book amount<br>at 31 March<br>2023 | 111.464                | 0.000              | 0.430              | 22.894            | 123.481                | -3.482            | 0.000 | 254.787  | 20.12        |
| Net book amount<br>at 1 April 2022     | 122.280                | 0.000              | 0.515              | 24.579            | 135.509                | -9.753            | 0.000 | 273.130  | 20.13        |
| Amortisation for                       | ryear                  |                    |                    |                   |                        |                   |       |          |              |
| Principal services                     | -19.639                | 0.000              | -0.374             | -8.822            | -34.512                | -0.364            | 0.000 | -63.711  | 20.14        |
| Third party<br>services                | 0.000                  | 0.000              | 0.000              | 0.000             | 0.000                  | 0.000             | 0.000 | 0.000    | 20.15        |
| Total                                  | -19.639                | 0.000              | -0.374             | -8.822            | -34.512                | -0.364            | 0.000 | -63.711  | 20.16        |
|  |                        |                    |                    |                   |                        |                   |       |          |              |

The net book value includes £263.9 million in respect of assets in the course of development.

## Independent Auditor's report to the Water Services Regulation Authority (the WSRA) and the Directors of Thames Water Utilities Limited

## Opinion

We have audited the tables within Thames Water Utilities Limited's (the "Company") Annual Performance Report for the year ended 31 March 2023 ("the Regulatory Accounting Statements") which comprise:

- the regulatory financial reporting tables comprising the income statement (table 1A), the statement of comprehensive income (table 1B), the statement of financial position (table 1C), the statement of cash flows (table 1D), the net debt analysis (table 1E), the financial flows (table 1F) and the related notes; and
- the regulatory price review and other segmental reporting tables comprising the segmental income statement (table 2A), the totex analysis wholesale (table 2B), the cost analysis for retail (table 2C), the historic cost analysis of tangible fixed assets (table 2D), the analysis of 'grants and contributions' water resources, water network+ and wastewater network+ (table 2E), the residential retail (table 2F), the revenue analysis (table 2I), the infrastructure network reinforcement costs (table 2J), the infrastructure charges reconciliation (table 2K), the analysis of land sales (table 2L), the revenue reconciliation wholesale (table 2M), residential retail social tariffs (table 2N) and historic cost analysis of intangible assets (table 2O) and the related notes.

We have not audited the Outcome performance tables (3A to 3I) and the additional regulatory information in tables 4A to 4W, 5A to 5B, 6A to 6F, 7A to 7F, 8A to 8D, 9A, 10A to 10E and 11A.

In our opinion, the Company's Regulatory Accounting Statements have been prepared, in all material respects, in accordance with Condition F, the Regulatory Accounting Guidelines issued by the WSRA (RAG 1.09, RAG 2.08, RAG 2.09, RAG 3.14, RAG 4.11 and RAG 5.07) and the accounting policies (including the Company's published accounting methodology statements, as defined in RAG 3.14, appendix 2), set out on page 127 to 133.

## **Basis for opinion**

We conducted our audit in accordance with International Standards on Auditing (UK) ("ISAs (UK)"), including ISA (UK) 800, and applicable law, except as stated in the section on Auditors' responsibilities for the audit of the Regulatory Accounting Statements below, and having regard to the guidance contained in ICAEW Technical Release Tech 02/16 AAF 'Reporting to Regulators on Regulatory Accounts' issued by the Institute of Chartered Accountants in England & Wales.

Our responsibilities under ISAs (UK) are further described in the Auditors' responsibilities for the audit of the Regulatory Accounting Statements within the Annual Performance Report section of our report. We are independent of the Company in accordance with the ethical requirements that are relevant to our audit, including the Financial Reporting Council's (FRC's) Ethical Standard as applied to public interest entities, and we have fulfilled our ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

## Emphasis of matter - special purpose basis of preparation

We draw attention to the fact that the Regulatory Accounting Statements have been prepared in accordance with a special purpose framework, Condition F, the Regulatory Accounting Guidelines, the accounting policies (including the Company's published accounting methodology statements, as defined in RAG 3.14, appendix 2) set out in the statement of accounting policies and under the historical cost convention. The nature, form and content of the Regulatory Accounting Statements are determined by the WSRA. As a result, the Regulatory Accounting Statements may not be suitable for another purpose. It is not appropriate for us to assess whether the nature of the information being reported upon is suitable or appropriate for the WSRA's purposes. Accordingly, we make no such assessment. In addition, we are not required to assess whether the methods of cost allocation set out in the accounting methodology statement are appropriate to the circumstances of the Company or whether they meet the requirements of the WSRA.

The Regulatory Accounting Statements are separate from the statutory financial statements of the Company and have not been prepared under the basis of United Kingdom adopted international accounting standards ("UK IASs"). Financial information other than that prepared on the basis of UK IASs does not necessarily represent a true and fair view of the financial performance or financial position of a Company as shown in statutory financial statements prepared in accordance with the Companies Act 2006.

The Regulatory Accounting Statements on pages 114 to 153 have been drawn up in accordance with Regulatory Accounting Guidelines with a number of departures from UK IASs. A summary of the effect of these departures in the Company's statutory financial statements is included in the tables within section 1.

Our opinion is not modified in respect of this matter.

### **Conclusions relating to going concern**

In auditing the Regulatory Accounting Statements, we have concluded that the directors' use of the going concern basis of accounting in the preparation of the Regulatory Accounting Statements is appropriate.

Our evaluation of the directors' assessment of the company's ability to continue to adopt the going concern basis of accounting included:

- Testing the mathematical integrity of the cash flow forecasts and the models supporting the forecasts used by management to support their going concern assumption and reconciling these to Board approved budgets.
- Understanding the key assumptions management have applied in developing their base case and severe but plausible and severe downside scenarios where it was assessed there was sufficient headroom to "trigger" and "event of default" thresholds. These can be split as those that are more judgemental in nature and those that are less judgemental. For those less judgemental assumptions such as revenue growth, we verified this to published tariffs for FY24 in compliance with Ofwat's guidance. For those more judgemental assumptions such as power costs which is a largely non-discretional cost subject to volatility, we understood the basis on which management had made these assumptions. We challenged various aspects of management's base case and downside scenarios, including how management have created their severe but plausible downside case as a combination of various individual scenarios. We concluded that the base case was reasonable and the downside case appropriately severe but plausible.

- Performing a comparison of budget versus actual for the year ended 31 March 2023 and understanding where variances had arisen. Through this testing we obtained reasonable assurance over management's ability to forecast accurately.
- Developing our own assessment of forecast FY24 operating cashflows, by taking the FY23 operating cashflow and including forecast positive cashflow movements we considered to be less judgemental (e.g. revenue growth). We then considered the level of additional spend that would need to be incurred in excess of the FY23 actuals for a breach to occur on the PMICR covenant assuming no mitigating actions from management. From this assessment we concluded that it was unlikely that expenditure could be at a level to lead to a covenant breach.
- Verifying liquidity forecasts to the Board approved budget and testing that contractual debt principal and interest payments had been appropriately included within the forecasts. We considered the headroom of expected cash outflows in the going concern period against available liquidity, identifying a reasonable level of headroom to allow for unexpected spend.
- Obtaining and understanding the terms of the Group's financing and credit facilities, the Whole Business Securitisation, and in particular the financial covenants that the Group must adhere to. We have verified the existence of the facilities in place on which management has based its liquidity forecast for a period of in excess of 12 months from the date of the approval of the 31 March 2023 financial statements (the going concern period).
- Obtaining covenant compliance certificates, confirming that all the key covenants that impact the continued access to finance have been considered over the relevant time periods and verifying the mathematical accuracy, and testing inputs back to either the year end financial numbers or for forecasted information to the Board approved budget.
- Obtaining the latest credit ratings for the TWUL group and verifying that the group maintained an investment grade rating through the year and up to the date of this report and therefore taking reasonable assurance that the Group should still be able to access capital markets as required.
- Performing enquires and reviewing correspondences with Regulators and various stakeholders to corroborate management' position and assess if there is any contradictory information in light of increasing media attention and regulatory scrutiny.
- Assessing the disclosure given in the financial statements in respect of going concern and whether it gives a fair and balanced view.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the company's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

However, because not all future events or conditions can be predicted, this conclusion is not a guarantee as to the company's ability to continue as a going concern

Our responsibilities and the responsibilities of the directors with respect to going concern are described in the relevant sections of this report.

## Other information

The other information comprises all of the information in the Annual Performance Report other than the Regulatory Accounting Statements and our auditors' report thereon. The directors are responsible for the other information. Our opinion on the Regulatory Accounting Statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the Regulatory Accounting Statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the Regulatory Accounting Statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If we identify an apparent material inconsistency or material misstatement, we are required to perform procedures to conclude whether there is a material misstatement of the Regulatory Accounting Statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of the other information, we are required to report that fact.

We have nothing to report based on these responsibilities.

## **Responsibilities of the Directors for the Annual Performance Report**

As explained more fully in the Statement of Directors' Responsibilities set out on page 100 to 101, the directors are responsible for the preparation of the Annual Performance Report in accordance with Condition F, the Regulatory Accounting Guidelines issued by the WSRA and the Company's accounting policies (including the Company's published accounting methodology statements, as defined in RAG 3.14, appendix 2).

The directors are also responsible for such internal control as they determine is necessary to enable the preparation of the Annual Performance Report that is free from material misstatement, whether due to fraud or error.

In preparing the Annual Performance Report, the directors are responsible for assessing the Company's ability to continue as a going concern, disclosing as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Company or to cease operations, or have no realistic alternative but to do so.

# Auditors' responsibilities for the Audit of the Regulatory Accounting Statements within the Annual Performance Report

Our objectives are to obtain reasonable assurance about whether the Regulatory Accounting Statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the Regulatory Accounting Statements.

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud, is detailed below.

We considered the nature of the company's industry and its control environment and reviewed the company's documentation of their policies and procedures relating to fraud and compliance with laws and regulations. We also enquired of management and internal audit about their own identification and assessment of the risks of irregularities.

We obtained an understanding of the legal and regulatory framework that the company operates in, and identified the key laws and regulations that:

• had a direct effect on the determination of material amounts and disclosures in the Regulatory Accounting Statements. These included Regulatory Accounting Guidelines as issued by the WRSA,

UK Companies Act 2006, pensions legislation, UK corporation tax legislation, Environmental regulations, Listing rules; and

• do not have a direct effect on the Regulatory Accounting Statements but compliance with which may be fundamental to the company's ability to operate or to avoid a material penalty. These included the company's operating licence, regulatory solvency requirements and environmental regulations.

In common with all audits under ISAs (UK), we are also required to perform specific procedures to respond to the risk of management override. In addressing the risk of fraud through management override of controls, we tested the appropriateness of journal entries and other adjustments; assessed whether the judgements made in making accounting estimates are indicative of a potential bias; and evaluated the business rationale of any significant transactions that are unusual or outside the normal course of business.

In addition to the above, our procedures to respond to the risks identified included the following:

- Discussions and enquiries of management, internal the audit function and legal counsel, including consideration of known or suspected instances of non-compliance with laws and regulation and fraud;
- Evaluation of management's controls designed to prevent and detect irregularities;
- Challenging assumptions made by management in determining significant accounting estimates and judgments, including challenging management in relation to how they have considered climate risk in such critical estimates. We have tested significant accounting estimates and judgements to supporting documentation, considering alternative information where available along with considering the appropriateness of the related disclosures in the financial statements;
- Identifying and testing a sample of journal entries throughout the whole year, which met our predetermined fraud risk criteria;
- Reviewing minutes of meetings of those charged with governance and reviewing internal audit reports; and
- Performing unpredictable procedures by sampling non-standard payments, the set up of new suppliers, vendor detail changes, testing of dormant and non period-end bank accounts, and posting of journal entries from unexpected users.

A further description of our responsibilities for the audit of the Regulatory Accounting Statements is located on the Financial Reporting Council's website at <u>www.frc.org.uk/auditorsresponsibilities</u>. This description forms part of our auditor's report.

## Use of this report

This report is made, on terms that have been agreed, solely to the Company and the WSRA in order to meet the requirements of Condition F of the Instrument of Appointment granted by the Secretary of State for the Environment to the Company as a water and sewage undertaker under the Water Industry Act 1991 ("Condition F"). Our audit work has been undertaken so that we might state to the Company and the WSRA those matters that we have agreed to state to them in our report, in order (a) to assist the Company to meet its obligation under Condition F to procure such a report and (b) to facilitate the carrying out by the WSRA of its regulatory functions, and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the Company and the WSRA, for our audit work, for this report or for the opinions we have formed.

Our opinion on the Regulatory Accounting Statements is separate from our opinion on the statutory financial statements of the Company for the year ended 31 March 2023 on which we reported on 10 July 2023, which are prepared for a different purpose. Our audit report in relation to the statutory financial statements of the Company (our "Statutory audit") was made solely to the Company's members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our Statutory audit work was undertaken so that we might state to the Company's members those matters we are required to state to them in a statutory audit report and for no other purpose. In these circumstances, to the fullest extent permitted by law, we do not accept or assume responsibility for any other purpose or to any other person to whom our Statutory audit report is shown or into whose hands it may come save where expressly agreed by our prior consent in writing.

PricewaterhouseCoopers LLP Chartered Accountants and Statutory Auditors Reading 10 July 2023

Section 3 Performance summary

Thames Water Annual Performance Report 2022/23

# Table 3A: Outcome performance – Water performance commitments (Financial)<sup>64</sup>

| RAG 4   |
|---------|
| Ref     |
| 3 3A.1  |
| 6 3A.2  |
| 0 3A.3  |
| 8 3A.4  |
| 9 3A.5  |
| 0 3A.6  |
| 5 3A.7  |
| 0 3A.8  |
| 2 3A.9  |
| 3 3A.10 |
| 4 3A.11 |
| 5 3A.12 |
| 5 3A.13 |
| 0 3A.14 |
| 3 3A.15 |
| 5 3A.16 |
| 0 3A.17 |
| 3 3A.18 |
| 0 3A.19 |
| 0 3A.20 |
| 0 3A.21 |
| 3A.27   |
| 3A.28   |
|         |

<sup>&</sup>lt;sup>64</sup> Please note that BW06a – Water quality compliance (CRI), BW08 – Acceptability of water to consumers and BW09 – Water quality events all cover the period with the year ending on 31 December 2022. All other metrics in this table are for the period with the year ending on 31 March 2023.

<sup>&</sup>lt;sup>65</sup> PricewaterhouseCoopers LLP ("PwC") conducted an independent limited assurance engagement on selected Subject Matter Information (shown with the symbol<sup>®</sup>) for the year ended 31 March 2023 in accordance with International Standard on Assurance Engagements 3000 (revised).

<sup>&</sup>lt;sup>66</sup> Prudent and cautious forecast of performance combining our cumulative year three position, operational modelling and budget information for the remaining years of the AMP. This could be subject to change as we complete our capital programme review.

<sup>&</sup>lt;sup>67</sup> This performance commitment has no expected performance level for this year.

# Table 3B: Outcome performance – Wastewater performance commitments (Financial)<sup>68</sup>

| Line description  | Ref   | Unit | Performance<br>level<br>actual <sup>69</sup> | PCL<br>met? | Out/under<br>performance<br>payment<br>£m | Forecast of<br>total 2020-25<br>out/under<br>performance<br>payment<br>£m | RAG 4<br>Ref |
|---|-------|------|--|-------------|---|---|--------------|
| Internal sewer flooding                                       | CS03  | nr   |  | No No       | -5.531                                    | -59.425   | 3B.1         |
| Pollution incidents   | ES01  | nr   |  | No No       | -9.345                                    | -42.299   | 3B.2         |
| Sewer collapses   | CS02  | nr   | 0.00   | Yes         | 0.340                                     | 0.687   | 3B.3         |
| Treatment works<br>_compliance                                | CS01  | %    | 99.48  | No          | 0.000                                     | -0.123  | 3B.4         |
| Clearance of blockages  | CS04  | nr   | 73,780                                       | No          | -8.811                                    | -27.740   | 3B.5         |
| Sewage pumping station availability                           | CS05  | %    | 97.8   | Yes         | 0.000                                     | 0.000   | 3B.6         |
| Surface water<br>management                                   | DS02  | nr   | 0.66   | No          | 0.000                                     | -2.559  | 3B.7         |
| Environmental measures delivered                              | ES02  | nr   | 536  | Yes         | 0.000                                     | -2.822  | 3B.8         |
| Sludge treated before<br>disposal                             | ES03  | %    | 99.4   | Yes         | 0.000                                     | 0.000   | 3B.9         |
| Readiness to receive<br>tunnel flow at Beckton<br>STW         | ET01  | Nr   | 0  | Yes         | 0.000                                     | 0.000   | 3B.10        |
| Critical asset readiness<br>for the London Tideway<br>Tunnels | ET04  | text | 0  | Yes         | 0.000                                     | 0.000   | 3B.11        |
| Enhancing biodiversity  | EWS01 | Nr   | 331  | No          | 0.000                                     | 0.000   | 3B.12        |
| Smarter Water<br>Catchment Initiatives                        | EWS02 | Nr   | 3  | Yes         | 0.000                                     | 0.000   | 3B.13        |
| Renewable energy<br>produced                                  | EWS03 | GWh  | 536  | Yes         | 2.096                                     | 5.884   | 3B.14        |
| Managing early<br>handback of Tideway<br>project land         | ET07  | mths | 6  | Yes         | 0.000                                     | 5.120   | 3B.15        |
| Financial wastewater<br>performance<br>commitments achieved   |       | %    | 60   |             |   |   | 3B.19        |

<sup>&</sup>lt;sup>68</sup> ES01 (Pollution incidents) and CS01 (Treatment works compliance) cover the period with the year ending on 31 December 2022. All other metrics in this table are for the period with the year ending on 31 March 2023.

<sup>&</sup>lt;sup>69</sup> PricewaterhouseCoopers LLP (PwC) conducted an independent limited assurance engagement on selected Subject Matter Information (shown with the symbol <sup>(®)</sup>) for the year ended 31 March 2023 in accordance with International Standard on Assurance Engagements 3000 (revised).

## Table 3C: Customer measure of experience ("C-MeX") table

| Item  | Unit        | Value     | RAG 4<br>Ref |
|---|-------------|-----------|--------------|
| Annual customer satisfaction score for the customer service survey    | nr          | 59.47     | 3C.1         |
| Annual customer satisfaction score for the customer experience survey | nr          | 74.65     | 3C.2         |
| Annual C-MeX score (AR01)   | nr          | 67.06     | 3C.3         |
| Annual net promoter score   | nr          | -10.00    | 3C.4         |
| Total household complaints  | nr          | 75768     | 3C.5         |
| Total connected household properties                                  | nr          | 5,932,348 | 3C.6         |
| Total household complaints per 10,000 connections                     | nr          | 127.720   | 3C.7         |
| Confirmation of communication channels offered                        | TRUE/ FALSE | TRUE      | 3C.8         |

# Table 3D: Developer services measure of experience ("D-MeX") table

| Item                                    | Unit | Value  | RAG 4<br>Ref |
|---|------|--------|--------------|
| Qualitative component annual results    | nr   | 66.55  | 3D.1         |
| Quantitative component annual results   | nr   | 94.37  | 3D.2         |
| D-MeX score (AWS01)                     | nr   | 80.46  | 3D.3         |
| Developer services revenue (water)      | £m   | 36.536 | 3D.4         |
| Developer services revenue (wastewater) | £m   | 15.958 | 3D.5         |

# Calculating the D-MeX quantitative component

| Water UK performance metric       | Unit | Reporting period<br>(1 April to 31 March) | Quantitative<br>score<br>(annual) | RAG 4<br>Ref |
|-----------------------------------|------|---|-----------------------------------|--------------|
| W1.1                              | %    | 100.00%                                   | , , ,                             | 3D.W1        |
| W3.1                              | %    | 95.91%                                    |                                   | 3D.W2        |
| W4.1                              | %    | 85.10%                                    |                                   | 3D.W3        |
| W6.1                              | %    | 95.31%                                    |                                   | 3D.W4        |
| W7.1                              | %    |   |                                   | 3D.W5        |
| W8.1                              | %    | 68.22%                                    |                                   | 3D.W6        |
| W17.1                             | %    | 95.12%                                    |                                   | 3D.W7        |
| W17.2                             | %    | 100.00%                                   |                                   | 3D.W8        |
| W18.1                             | %    | 87.80%                                    |                                   | 3D.W9        |
| W20.1                             | %    |   |                                   | 3D.W10       |
| W21.1                             | %    |   |                                   | 3D.W11       |
| W23.1                             | %    |   |                                   | 3D.W12       |
| W24.1                             | %    |   |                                   | 3D.W13       |
| W26.1                             | %    |   |                                   | 3D.W14       |
| W27.1                             | %    | 100.00%                                   |                                   | 3D.W15       |
| W30.1                             | %    | 100.00%                                   |                                   | 3D.W16       |
| S1.1                              | %    | 99.91%                                    |                                   | 3D.W17       |
| S3.1                              | %    | 100.00%                                   |                                   | 3D.W18       |
| S4.1                              | %    | 100.00%                                   |                                   | 3D.W19       |
| S7.1                              | %    |   |                                   | 3D.W20       |
| SN2.2                             | %    | 100.00%                                   |                                   | 3D.W21       |
| SN4.1                             | %    |   |                                   | 3D.W22       |
| WN1.1                             | %    | 100.00%                                   |                                   | 3D.W23       |
| WN2.2                             | %    | 100.00%                                   |                                   | 3D.W24       |
| WN4.1                             | %    |   |                                   | 3D.W25       |
| WN4.2                             | %    | 100.00%                                   |                                   | 3D.W26       |
| WN4.3                             | %    | 100.00%                                   |                                   | 3D.W27       |
| SAM 3/1                           | %    | 99.30%                                    |                                   | 3D.W28       |
| SAM 4/1                           | %    | 96.49%                                    |                                   | 3D.W29       |
| SLPM – S1/2                       | %    | 98.51%                                    |                                   | 3D.W30       |
| SLPM - S2/2a                      | %    | 98.04%                                    |                                   | 3D.W31       |
| SLPM - S2/2b                      | %    | 100.00%                                   |                                   | 3D.W32       |
| SLPM – S3                         | %    | 87.64%                                    |                                   | 3D.W33       |
| SLPM – S4/1                       | %    | 58.06%                                    |                                   | 3D.W34       |
| SLPM – S5/1a                      | %    | 85.71%                                    |                                   | 3D.W35       |
| SLPM – S7/1                       | %    | 96.92%                                    |                                   | 3D.W36       |
| D-MeX quantitative                | %    | 94.37%                                    |                                   | 3D.7         |
| D-MeX quantitative score (annual) | nr   |   | 0.94                              | 3D.8         |

# Table 3E: Outcome performance – non-financial performance commitments

| Line description  | Ref   | Unit     | Performance<br>level<br>actual <sup>70</sup> | PCL<br>met? | RAG 4<br>Ref |
|---|-------|----------|--|-------------|--------------|
| Risk of severe restrictions in a drought  | DW01  | %        | 0.9  | No          | 3E.1         |
| Priority services for customers in vulnerable<br>circumstances - PSR reach          | AR06  | %        | 6.2  | A Yes       | 3E.2         |
| Priority services for customers in vulnerable<br>circumstances - Attempted contacts | AR06  | %        | 93.7   | A Yes       | 3E.3         |
| Priority services for customers in vulnerable circumstances - Actual contacts       | AR06  | %        | 47.4   | A Yes       | 3E.4         |
| Risk of sewer flooding in a storm   | DS01  | %        | 10.25  | A Yes       | 3E.5         |
| Percentage of satisfied vulnerable customers  | AR05  | %        | 88   | No          | 3E.6         |
| Proactive customer engagement   | AWS02 | nr       | 136,796                                      | No          | 3E.7         |
| Responding to major trunk mains bursts  | BW11  | hh:mm:ss | 00:08:54                                     | No          | 3E.8         |
| Households on the Thames Water social tariff  | ER03  | nr       | 306,506                                      | Yes         | 3E.9         |
| Effective stakeholder engagement  | ET02  | score    | 5.1  | Yes         | 3E.10        |
| Establish an effective system operator for the London Tideway Tunnels               | ET05  | %        | 1 <sup>71</sup>                              | Yes         | 3E.11        |
| Maximising the value of Tideway project land sales                                  | ET06  | £m       | 0.0  | Yes         | 3E.12        |
| Natural Capital Accounting  | EWS04 | %        | 100.0  | Yes         | 3E.13        |
| BSI for fair, flexible inclusive services   | AR07  | text     | Maintained                                   | Yes         | 3E.14        |
| WINEP Delivery  | NEP01 | text     | No   | No          | 3E.15        |
| Delivery of DWMPs   | DWMP  | %        | 100  | Yes         | 3E.16        |
| Understanding the risk of flooding in the Counters Creek catchment                  | СС    | text     | N/A  | Yes         | 3E.17        |
| Future London strategy (London network conditional allowance)                       | LWI02 | text     | 0  | Yes         | 3E.18        |
| Data validation (London network conditional allowance)                              | LWI03 | text     | 0  | Yes         | 3E.19        |
| Non-financial performance commitments achieved                                      |       | %        |  | 74          | 3E.29        |

<sup>&</sup>lt;sup>70</sup> PricewaterhouseCoopers LLP (PwC) conducted an independent limited assurance engagement on selected Subject Matter Information (shown with the symbol<sup>®</sup>) for the year ended 31 March 2023 in accordance with International Standard on Assurance Engagements 3000 (revised).

<sup>&</sup>lt;sup>71</sup> This entry should read 0.65, but the Ofwat model has rounded it to 1

# Table 3F: Underlying calculations for common performance commitments – water and retail

Performance commitments set in standardised units – Water

| Line description                   | Unit           | Standardising data<br>indicator                                | Standardising<br>data<br>numerical<br>value | Performance<br>level<br>Actual | Performance<br>level -<br>Calculated<br>(i.e.<br>standardised) | RAG4<br>Ref |
|------------------------------------|----------------|--|---|--------------------------------|--|-------------|
| Mains repairs -<br>Reactive        | per<br>1,000km | Mains length<br>in km  | 31,926.65                                   | 5,158                          | 161.56   | 3F.1        |
| Mains repairs -<br>Proactive       | per<br>1,000km | Mains length<br>in km  | 31,926.65                                   | 4,956                          | 155.23   | 3F.2        |
| Mains repairs                      | per<br>1,000km | Mains length<br>in km  | 31,926.65                                   | 10,114                         | 316.79   | 3F.3        |
| Per capita<br>consumption<br>(PCC) | l/p/d          | Total household<br>population (000s) and<br>consumption (MI/d) | 10,275.88                                   | 1,445                          | 140.60   | 3F.4        |

| Performance commitments measured against a calculated baseline |      |                     |                     |                     |   |                     |  |  |  |  |
|--|------|---------------------|---------------------|---------------------|---|---------------------|--|--|--|--|
| Line description   | Unit | actual<br>(2017-18) | actual<br>(2018-19) | actual<br>(2019-20) | Baseline<br>(average from<br>2017-18 to<br>2019-20) | actual<br>(2020-21) | Performance<br>level - actual<br>(2021-22) |  |  |  |
| Leakage  | MI/d | 699.4               | 694.0               | 629.8               | 674.4   | 593.2               | 593.8                                      |  |  |  |
| Per capita consumption   | lpd  | 145.8               | 147.1               | 144.9               | 146.0   | 152.8               | 144.7                                      |  |  |  |

| Line description       | Unit | actual<br>(2022-23) | actual<br>(2023-24) | actual<br>(2024-25) | Performance level<br>3 year average<br>(current and<br>previous 2 years) | Calculated<br>performance<br>level to<br>compare<br>against PCLs | RAG4<br>Ref |
|------------------------|------|---------------------|---------------------|---------------------|--|--|-------------|
| Leakage                | MI/d | 619.7               |                     |                     | 602.2  | 10.7   | 3F.5        |
| Per capita consumption | lpd  | 140.6               |                     |                     | 146.0  | 0.0  | 3F.6        |

| Water supply interruptions       |         |                                   |                                    |                          |  |                                    |             |  |  |  |
|----------------------------------|---------|-----------------------------------|------------------------------------|--------------------------|--|------------------------------------|-------------|--|--|--|
| Line<br>description              | Unit    | Standardising data indicator      | Standardising data numerical value | Total<br>minutes<br>lost | Number of<br>properties<br>supply<br>interrupted | Calculated<br>performance<br>level | RAG4<br>ref |  |  |  |
| Water<br>supply<br>interruptions | minutes | Number of<br>properties<br>(000s) | 4,037.76                           | 80351364                 | 39,466   | 00:19:54                           | 3F.7        |  |  |  |

| Lipplannad or plannad outage                                |   |  |  |                         |   |
|---|---|--|--|-------------------------|---|
| Unplanned or planned outage                                 |   |  |  |                         |   |
|   | Current company leve<br>peak week production<br>capacity (PWPC)<br>Ml/d |  | vel Outage<br>of F   | proportion<br>WPC<br>%  | RAG4<br>Ref   |
| Unplanned outage  | 3,403.90  | 90.20  | 2.   | 65%                     | 3F.8  |
|   |   |  |  |                         |   |
| Priority services for customers                             | in vulnerable circums   | tances   |  |                         |   |
| Line description  | Total residential<br>properties<br>(000s)                               | Total number of<br>households on the F<br>(as at 31 March) | PSR PSR rea  | ich h                   | otal number o<br>ouseholds on<br>he PSR over a<br>2-year period |
| Priority services for customers in vulnerable circumstances | 5,745.87  | 358,899  | 6.2%   |                         | 150,030   |
|   |   |  |  |                         |   |
| Line description  | Number of<br>attempted contacts<br>over a 2-year period                 |  | Number of<br>actual<br>contacts over<br>a 2-year<br>period | Actual<br>contacts<br>% | RAG4<br>ref   |
| Priority services: customers in vulnerable circumstances    | 140,511   | 93.7%  | 71,163   | 47.4%                   | 3F.9  |

# Table 3G: Underlying calculations for common performance commitments – wastewater

Performance commitments set in standardised units

| Line description   | Ref  | Unit                                  | Standardising data indicator      | Standardising<br>data numerical<br>value | Performance<br>level actual<br>current<br>reporting year | Calculated<br>performan<br>ce level | RAG 4<br>Ref |  |
|--|------|---------------------------------------|-----------------------------------|--|--|-------------------------------------|--------------|--|
| Internal sewer flooding<br>- customer proactively<br>reported                                      | CS03 | Per 10,000<br>sewer<br>connections    | Number of<br>sewer<br>connections | 6,139.60                                 | 1,092  | 1.78                                | 3G.1         |  |
| Internal sewer flooding<br>- company reactively<br>identified<br>(i.e. neighbouring<br>properties) | CS03 | Per 10,000<br>sewer<br>connections    | Number of<br>sewer<br>connections | 6,139.60                                 | 78   | 0.13                                | 3G.2         |  |
| Internal sewer flooding  | CS03 | Per 10,000<br>sewer<br>connections    | Number of<br>sewer<br>connections | 6,139.60                                 | 1,170  | 1.91                                | 3G.3         |  |
| Pollution incidents  | ES01 | Per<br>10,000km<br>of sewer<br>length | Sewer length<br>in km             | 108,980.00                               | 331  | 30.37                               | 3G.4         |  |
| Sewer collapses  | CS02 | Per 1,000km of all sewers             | Sewer length<br>in km             | 109,355.00                               | 388  | 3.55                                | 3G.5         |  |
|  |      |                                       |                                   |  |  |                                     |              |  |

# Table 3H: Summary information on outcome delivery incentives

| Line description<br>Units: £m (2017-18 prices)                        | Initial calculation of<br>performance payments<br>(excluding C-MeX and D-<br>MeX) | RAG 4<br>Ref |
|---|---|--------------|
| Initial calculation of in period revenue adjustment by price control  |   |              |
| Water resources   | -0.47   | 3H.1         |
| Water network plus  | -60.71  | 3H.2         |
| Wastewater network plus   | -23.00  | 3H.3         |
| Bioresources (sludge)   | 1.89  | 3H.4         |
| Residential retail  | 0.02  | 3H.5         |
| Business retail   | 0.00  | 3H.6         |
| Dummy control   | 0.00  | 3H.7         |
| Initial calculation of end of period revenue adjustment by price cont | trol  |              |
| Water resources   | 0.00  | 3H.8         |
| Water network plus  | -7.14   | 3H.9         |
| Wastewater network plus   | -2.90   | 3H.10        |
| Bioresources (sludge)   | 0.00  | 3H.11        |
| Residential retail  | 0.00  | 3H.12        |
| Business retail   | 0.00  | 3H.13        |
| Dummy control   | 0.12  | 3H.14        |
| Initial calculation of end of period RCV adjustment by price control  |   |              |
| Water resources   | 0.00  | 3H.15        |
| Water network plus  | 0.00  | 3H.16        |
| Wastewater network plus   | 0.00  | 3H.17        |
| Bioresources (sludge)   | 0.00  | 3H.18        |
| Residential retail  | 0.00  | 3H.19        |
| Business retail   | 0.00  | 3H.20        |
| Dummy control   | 0.00  | 3H.21        |

# Table 3: Supplementary outcomes information

| Unplanned or planned outage |  |  |                                      |              |  |  |  |  |  |  |
|-----------------------------|--|--|--------------------------------------|--------------|--|--|--|--|--|--|
| Line description            | Current company level peak<br>week production capacity<br>(PWPC)<br>Ml/d | Reduction in<br>company level PWPC<br>MI/d | Outage<br>proportion of<br>PWPC<br>% | RAG 4<br>Ref |  |  |  |  |  |  |
| Planned outage              | 3,403.90   | 39.90                                      | 1.17%                                | 31.1         |  |  |  |  |  |  |

| Risk of severe restrictions in drought       |                       |                     |                    |                    |                                 |                      |              |  |  |  |  |
|--|-----------------------|---------------------|--------------------|--------------------|---------------------------------|----------------------|--------------|--|--|--|--|
| Line description                             | Deployabl<br>e output | Outage<br>allowance | Dry year<br>demand | Target<br>headroom | Total<br>population<br>supplied | Customers<br>at risk | RAG<br>4 Ref |  |  |  |  |
| Risk of severe<br>restrictions in<br>drought | 2,854.85              | 64.83               | 2,680.28           | 111.16             | 10,379.73                       | 9,741.62             | 31.2         |  |  |  |  |

| Risk of sewer flooding in a storm    |                 |                                       |  |                       |  |  |  |  |  |  |
|--------------------------------------|-----------------|---------------------------------------|--|-----------------------|--|--|--|--|--|--|
| Line description                     | Total pe served | Total pe in<br>excluded<br>catchments | Percentage of<br>total pe in<br>excluded<br>catchments | Total pe<br>Option 1a | Percentage of<br>total pe Option<br>1a |  |  |  |  |  |
| Risk of sewer<br>flooding in a storm | 15,018,284      | 24,303                                | 0.16%  | 936,720               | 6.24%                                  |  |  |  |  |  |

|                                      |           | Percentage | V        |        |        |       |
|--------------------------------------|-----------|------------|----------|--------|--------|-------|
|                                      | I otal pe |            | Low      | Medium | High   | RAG 4 |
|                                      | Option 1b | Option 1b  | Percenta | Ref    |        |       |
| Risk of sewer flooding<br>in a storm | 603,269   | 4.02%      | 89.75%   | 0.00%  | 10.25% | 31.3  |

| Sewer collapses  |   |              |
|------------------|---|--------------|
| Line description | Number of patch repairs or relining undertaken on sewer and not included in reported sewer collapses. | RAG 4<br>Ref |
| Sewer collapses  | 2,157   | 31.4         |



# Independent Limited Assurance Report to the Directors of Thames Water Utilities Limited on the Selected Performance Commitments

The Board of Directors of Thames Water Utilities Limited ("Thames Water") engaged us to obtain limited assurance on the Subject Matter Information as defined below and marked with the symbol A in Tables 3A, 3B and 3E in 'Section 3 – Performance summary' of Thames Water's Annual Performance Report for the year ended 31 March 2023 (the "Report").

Our assurance conclusion does not extend to information in respect of earlier periods or to any other information included in, or linked from, the Report including any images, audio files or videos. In addition, the scope of our assurance did not extend to certain underlying data inputs into key systems and/or models where they are derived from scientific or mechanical data sources or where they come from generally accepted industry standard data.

#### **Our limited assurance conclusion**

Based on the procedures we have performed, as described under the 'Summary of work performed' and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Subject Matter Information in Thames Water's Report for the year ended 31 March 2023, has not been prepared, in all material respects, in accordance with the Reporting Criteria referenced in the 'Subject Matter Information and Reporting Criteria' section below.

#### Subject Matter Information and Reporting Criteria

The Subject Matter Information needs to be read and understood together with the Reporting Criteria, which Thames Water is solely responsible for selecting and applying. The Subject Matter Information and the Reporting Criteria are set out in the table below:

| Line Description              | Ref. | RAG 4<br>Ref | Unit   | Reporting<br>period <sup>72</sup> | Performance<br>level actual | Reporting<br>Criteria  |
|-------------------------------|------|--------------|--|-----------------------------------|-----------------------------|--|
| Leakage                       | BW04 | 3A.3         | % reduction in<br>leakage using a 3-<br>year average from<br>the 2019/20<br>baseline         | Reporting year                    | 10.7                        | https://www.t<br>hameswater.c<br>o.uk/about-<br>us/investors/o<br>ur-results <sup>73</sup> |
| Per Capita Consumption        | BW05 | 3A.4         | Three-year average<br>% reduction in the<br>average water<br>usage of household<br>customers | Reporting year                    | 0.0                         |  |
| Treatment Works<br>Compliance | CS01 | 3B.4         | % of our treatment<br>works compliant<br>with their<br>discharge permit<br>conditions        | Calendar year                     | 99.48                       |  |

<sup>&</sup>lt;sup>72</sup> Please note that those performance commitments with a 'Calendar year' reporting period cover the period from 1 January 2022 to 31 December 2022 and 'Reporting year' reporting period cover the period from 1 April 2022 to 31 March 2023.

<sup>&</sup>lt;sup>73</sup> The maintenance and integrity of Thames Water's website is the responsibility of the Directors; the work carried out by us does not involve consideration of these matters and, accordingly, we accept no responsibility for any changes that may have occurred to the reported Subject Matter Information or Reporting Criteria when presented on Thames Water's website.

| Line Description  | Ref.  | RAG 4<br>Ref | Unit   | Reporting<br>period <sup>72</sup> | Performance<br>level actual | Reporting<br>Criteria |  |
|---|-------|--------------|--|-----------------------------------|-----------------------------|-----------------------|--|
| Unplanned Outage  | BW02  | 3A.6         | % of water we were<br>unable to supply<br>due to unforeseen<br>circumstances   | Reporting year                    | 2.65                        |                       |  |
| Internal Sewer Flooding   | CS03  | 3B.1         | Number of<br>internal sewer<br>flooding incidents<br>per 10,000 sewer<br>connections   | Reporting year                    | 1.91                        |                       |  |
| Water Supply<br>Interruptions   | BW03  | 3A.2         | Length of time our<br>customers don't<br>have water (in<br>mm:ss)  | Reporting year                    | 19:54                       |                       |  |
| Risk of Sewer Flooding<br>in a Storm  | DS01  | 3E.5         | % of the<br>population at the<br>risk of sewer<br>flooding in a storm<br>from a 1 in 50-year<br>storm                        | Reporting year                    | 10.25%                      |                       |  |
| Surface Water<br>Management   | DSo2  | 3B.7         | Area (in hectares)<br>where surface<br>water is<br>disconnected from<br>the public sewer<br>system                           | Reporting year                    | 0.66                        | -                     |  |
| Water Quality<br>Compliance   | BW06a | 3A.1         | Annual aggregated<br>score of our level<br>of treated water<br>compliance<br>incidents                                       | Calendar year                     | 10.96                       |                       |  |
| Priority Services for<br>Customers in Vulnerable<br>Circumstances - PSR<br>Reach          | AR06  | 3E.2         | % of customers on<br>our priority service<br>register  | Reporting year                    | 6.2                         |                       |  |
| Priority Services for<br>Customers in Vulnerable<br>Circumstances -<br>Attempted Contacts | AR06  | 3E.3         | % of customers on<br>our priority service<br>register  | Reporting year                    | 93.7                        |                       |  |
| Priority Services for<br>Customers in Vulnerable<br>Circumstances - Actual<br>Contracts   | AR06  | 3E.4         | % of customers on<br>our priority service<br>register  | Reporting year                    | 47.4                        |                       |  |
| Mains Repair  | BW01  | 3A.5         | Number of repairs<br>we have made to<br>the network per<br>10,000kms of<br>mains   | Reporting year                    | 316.8                       |                       |  |
| Pollution Incidents   | ES01  | 3B.2         | Number of<br>pollution incidents<br>per 10,000km of<br>our wastewater<br>network that pose<br>a danger to the<br>environment | Calendar year                     | 30.37                       |                       |  |
| Sewer Collapses   | CS02  | 3B.3         | Number of sewer<br>collapses per   | Reporting year                    | 3.55                        |                       |  |

| Line Description         | Ref. | RAG 4<br>Ref | Unit  | Reporting<br>period <sup>72</sup> | Performance<br>level actual | Reporting<br>Criteria |
|--------------------------|------|--------------|---|-----------------------------------|-----------------------------|-----------------------|
|                          |      |              | 10,000 sewer<br>connections   |                                   |                             |                       |
| Security of Supply Index | DW02 | 3A.11        | Our ability to<br>maintain a water<br>supply,<br>particularly during<br>a drought (index<br>out of 100) | Reporting year                    | 99                          |                       |

### Inherent limitations

The absence of a significant body of established practice on which to draw to evaluate and measure non-financial information allows for different, but acceptable, evaluation and measurement techniques that can affect comparability between entities and over time.

Non-financial performance information is subject to more inherent limitations than financial information, given the characteristics of the underlying subject matter and the methods used for determining such information. The precision of different measurement techniques may also vary.

## Responsibilities of the directors

The Directors of Thames Water are responsible for:

- determining appropriate reporting topics and selecting or establishing suitable criteria for measuring or evaluating the underlying subject matter;
- ensuring that those criteria are relevant and appropriate to Thames Water and the intended users of the Report;
- the preparation of the Subject Matter Information in accordance with the Reporting Criteria including designing, implementing and maintaining systems, processes and internal controls over the evaluation or measurement of the underlying subject matter to result in Subject Matter Information that is free from material misstatement, whether due to fraud or error; and
- producing the Report, including underlying data and a statement of directors' responsibility, which provides a balanced reflection of Thames Water's performance in this area and discloses, with supporting rationale, matters relevant to the intended users of the Report.

### **Our responsibilities**

We are responsible for:

- planning and performing the engagement to obtain limited assurance about whether the Subject Matter Information is free from material misstatement, whether due to fraud or error;
- · forming an independent conclusion, based on the procedures we have performed and the evidence we have obtained; and
- · reporting our conclusion to the Directors of Thames Water.

### Professional standards applied

We performed a limited assurance engagement in accordance with International Standard on Assurance Engagements 3000 (Revised) 'Assurance Engagements other than Audits or Reviews of Historical Financial Information', issued by the International Auditing and Assurance Standards Board.

### Our independence and quality control

We have complied with the Institute of Chartered Accountants in England and Wales Code of Ethics, which includes independence and other requirements founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour, that are at least as demanding as the applicable provisions of the International Ethics Standards Board for Accountants International Code of Ethics for Professional Accountants (including International Independence Standards).

We apply the International Standard on Quality Management (UK) 1 and accordingly maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

### Summary of work performed

We performed a limited assurance engagement. Limited assurance can cover a range of assurance from low (i.e. just above assurance that is likely to enhance the intended user's confidence about what has been assured to a degree that it is clearly more than inconsequential) to just below reasonable assurance. Because the level of assurance in a limited assurance engagement varies in this way, we give more detail about the procedures performed, so that the intended users can understand the nature, timing and extent of procedures we performed as context for our conclusion. These procedures performed vary in nature and timing from, and are less than in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

In performing our assurance procedures, which were based on our professional judgement, we performed the following:

- considered the suitability in the circumstances of Thames Water's use of the Reporting Criteria, as the basis for preparing the Subject Matter Information;
- · considered the Subject Matter Information and the Reporting Criteria in the context of Ofwat's Final Determination;
- obtained an understanding of Thames Water's control environment, processes and systems relevant to the preparation of the Subject Matter Information. Our procedures did not include evaluating the suitability of design or operating effectiveness of control activities;
- evaluated the appropriateness of measurement and evaluation methods, reporting policies used and estimates made by Thames Water, noting that our procedures did not involve testing the data on which the estimates are based or separately developing our own estimates against which to evaluate Thames Water's estimates;
- performed limited substantive testing on a selective basis of the Subject Matter Information, testing involved: comparing year on year movements and obtaining explanations from management for significant differences we identified, designing and executing testing to access completeness of the data, agreeing arithmetical accuracy and agreeing data points to or from source information to check that the underlying subject matter had been appropriately evaluated or measured, recorded, collated and reported;
- assessed the impact of the Ofwat and Environment Agency investigations into Flow to Full Treatment at sewage treatment works on the wastewater-related performance commitments "Pollution Incidents" and "Treatment Works Compliance". In doing so, we interviewed management, structured our assurance procedures to consider the potential for Flow to Full Treatment to impact the performance commitments, and reviewed correspondence from the Environment Agency to corroborate the reported figures; and
- considered the disclosure and presentation of the Subject Matter Information, including reconciliation of the underlying data to the disclosure of the Subject Matter Information.

### **Other information**

The other information comprises all of the information in the Report other than the Subject Matter Information and our assurance report. The directors are responsible for the other information. As explained above, our assurance conclusion does not extend to the other information and, accordingly, we do not express any form of assurance thereon. In connection with our assurance of the Subject Matter Information, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the Subject Matter Information or our knowledge obtained during the assurance engagement, or otherwise appears to contain a material misstatement of fact. If we identify an apparent material inconsistency or material misstatement of fact, we are required to perform procedures to conclude whether there is a material misstatement of the Subject Matter Information or a material misstatement of the other information, and to take appropriate actions in the circumstances.

### Use of our report

Our report, including our conclusion, has been prepared solely for the Board of Directors of Thames Water in accordance with the agreement between us dated 22 February 2023, as amended by the variation letter dated 4 July 2023 (together the "agreement") To the fullest extent permitted by law, we do not accept or assume responsibility or liability to anyone other than the Board of Directors and Thames Water for our work or this report except where terms are expressly agreed between us in writing.

Pricenterhance Coopers 22P

PricewaterhouseCoopers LLP Chartered Accountants Watford 10 July 2023

Section 4 Additional regulatory information - service level

## Table 4A: Water bulk supply information

This table shows the value and volume of bulk supply imported and exported

| Line description           | Volume     | Operating costs | Revenue | RAG 4 |
|----------------------------|------------|-----------------|---------|-------|
| Units                      | MI         | £m              | £m      | Ref   |
| Bulk supply exports        |            |                 |         |       |
| Affinity Water             | 5,426.330  | 1.165           | 2.568   | 4A.1  |
| Albion Water               | 124.215    | 0.053           | 0.115   | 4A.2  |
| Anglian Water              | 80.200     | 0.034           | 0.000   | 4A.3  |
| Essex & Suffolk Water      | 36,183.810 | 2.317           | 2.374   | 4A.4  |
| Independent Water Networks | 1,290.00   | 0.479           | 1.332   | 4A.5  |
| Leep Utilities             | 2,009.52   | 0.778           | 1.859   | 4A.6  |
| Wessex                     | 6.852      | 0.003           | 0.011   | 4A.7  |
| ICOSA                      | 4.509      | 0.002           | 0.004   | 4A.8  |
| Total bulk supply exports  | 45,125.431 | 4.831           | 8.263   | 4A.26 |

| Line description                                | Volume  | Operating costs | RAG 4 |
|---|---------|-----------------|-------|
| Units   | MI      | £m              | Ref   |
| Bulk supply imports                             |         |                 |       |
| Northumbrian Water (Essex & Suffolk - Abberton) | 31.907  | 1.846           | 4A.27 |
| RWE Generation UK                               | 24.869  | 2.836           | 4A.28 |
| Anglian Water                                   | 127.600 | 0.195           | 4A.29 |
| Severn Trent                                    | 10.852  | 0.017           | 4A.30 |
| Total bulk supply imports                       | 195.228 | 4.894           | 4A.52 |

## Table 4B: Analysis of debt

We've chosen to publish the regulatory table 4B as a separate document to this Annual Performance Report due to the size of the table.

This table has been prepared in line with regulatory guidelines and follows the principles set out in this Annual Performance Report.

You can view this table on our website.

## Notes to table 4B

Where commitment fees or margin are based on a credit rating grid, information included on the table above reflects the percentage which is currently applicable.

2058 and 2060 maturity swaps each constitute three restructured transactions, the table above shows the combined position

Foreign currency debt is shown after incorporating the impact of cross currency swap; hence such swaps are not included in above table. These swaps would fall under Swap category D, aside from one Yen swap which is Category B due to a break clause.

Where margin is variable a weighted average is shown.

The fair value of all receive legs and pay legs of the relevant swap should be added together to calculate the total fair value of the swap.

Any facility related unamortised fees have been included in the column "Issuance costs".

Start dates and maturity dates provided in the prior year were updated to the dates as per the lease contracts.

These leases have earlier termination dates than stated in the prior period, based on updates provided in the current year.

These leases have extended in the current period, based on updated provided.

As a result of modifications in the period, the discount rate on these leases have been updated to the latest discount rate for the remaining period of the lease in line with the accounting standards.

## Table 4C: Impact of price control performance to date on RCV

Table 4C shows the projected adjustments to the Regulatory Capital Value that are expected at PR24.

| Line description   |                    | 12 months                | ended 31 Marc              | h 2023            |        |                    | Price                    | control period             | to date           |         |              |
|--|--------------------|--------------------------|----------------------------|-------------------|--------|--------------------|--------------------------|----------------------------|-------------------|---------|--------------|
| Units: £m  | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network plus | Bio-<br>resources | TTT    | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network plus | Bio-<br>resources | ТТТ     | RAG 4<br>Ref |
| Final determination allowed<br>totex (net of business rates,<br>abstraction licence fees,<br>grants and contributions and<br>other items not subject to cost<br>sharing) | 105.002            | 774.176                  | 887.278                    | 149.751           | 29.541 | 273.046            | 2,395.758                | 2,439.044                  | 284.022           | 94.081  | 4C.1         |
| Actual totex (excluding<br>business rates, abstraction<br>licence fees, grants and<br>contributions and other items<br>not subject to cost sharing)                      | 78.869             | 1,049.747                | 970.575                    | 166.335           | 40.971 | 226.408            | 2,727.399                | 2,409.548                  | 325.099           | 128.974 | 4C.2         |
| Transition expenditure   | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 0.000              | 0.000                    | 0.000                      | 0.000             | 1.620   | 4C.3         |
| Disallowable costs   | 0.000              | 8.602                    | 25.784                     | 11.000            | 7.647  | 0.040              | 9.755                    | 83.041                     | 21.036            | 48.692  | 4C.4         |
| Total actual totex (net of<br>business rates, abstraction<br>licence fees and grants and<br>contributions)   | 78.869             | 1041.145                 | 944.791                    | 155.335           | 33.324 | 226.368            | 2717.644                 | 2326.507                   | 304.063           | 81.902  | 4C.5         |
| Variance   | -26.133            | 266.969                  | 57.513                     | 5.584             | 3.783  | -46.678            | 321.886                  | -112.537                   | 20.041            | -12.179 | 4C.6         |
| Variance due to timing of expenditure  | -26.133            | 266.969                  | 57.513                     | 5.584             | 3.783  | -46.678            | 321.886                  | -112.537                   | 20.041            | -12.179 | 4C.7         |
| Variance due to efficiency   | 0.000              | 100.000                  | 0.000                      | 0.000             | 0.000  | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000   | 4C.8         |
| Customer cost sharing rate -<br>outperformance   | 25.00%             | 25.00%                   | 25.00%                     | 0.00%             | 42.00% | 25.00%             | 25.00%                   | 25.00%                     | 0.00%             | 42.00%  | 4C.9         |
| Customer cost sharing rate -<br>underperformance   | 67.73%             | 67.73%                   | 55.78%                     | 0.00%             | 57.20% | 67.73%             | 67.73%                   | 55.78%                     | 0.00%             | 57.20%  | 4C.10        |

| Line description   |                    | 12 months                | ended 31 Marc              | h 2023            |        |                    | Price                    | control period             | to date           |        |              |
|--|--------------------|--------------------------|----------------------------|-------------------|--------|--------------------|--------------------------|----------------------------|-------------------|--------|--------------|
| Units: £m  | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network plus | Bio-<br>resources | TTT    | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network plus | Bio-<br>resources | ттт    | RAG 4<br>Ref |
| Customer share of totex overspend  | 0.000              | 67.730                   | 0.000                      | 0.000             | 0.000  | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 4C.11        |
| Customer share of totex underspend   | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 4C.12        |
| Company share of totex overspend   | 0.000              | 32.270                   | 0.000                      | 0.000             | 0.000  | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 4C.13        |
| Company share of totex underspend  | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000  | 4C.14        |
| Final determination allowed<br>totex - business rates and<br>abstraction licence fees          | 19.281             | 83.360                   | 30.999                     | 10.706            | 0.000  | 54.104             | 233.916                  | 86.987                     | 30.042            | 0.000  | 4C.15        |
| Actual totex - business rates<br>and abstraction licence fees                                  | 26.903             | 68.000                   | 48.992                     | 2.049             | 0.000  | 69.595             | 196.777                  | 118.790                    | 9.394             | 0.000  | 4C.16        |
| Variance - business rates and abstraction licence fees   | 7.622              | -15.360                  | 17.993                     | -8.657            | 0.000  | 15.491             | -37.139                  | 31.803                     | -20.648           | 0.000  | 4C.17        |
| Customer cost sharing rate -<br>business rates   | 75.00%             | 75.00%                   | 75.00%                     | 75.00%            | 75.00% | 75.00%             | 75.00%                   | 75.00%                     | 75.00%            | 75.00% | 4C.18        |
| Customer cost sharing rate -<br>abstraction licence fees                                       | 75.00%             | 75.00%                   | 75.00%                     | 75.00%            | 75.00% | 75.00%             | 75.00%                   | 75.00%                     | 75.00%            | 75.00% | 4C.19        |
| Customer share of totex<br>over/underspend - business<br>rates and abstraction licence<br>fees | 5.717              | -11.520                  | 13.494                     | -6.493            | 0.000  | 11.618             | -27.854                  | 23.852                     | -15.486           | 0.000  | 4C.20        |
| Company share of totex<br>over/underspend - business<br>rates and abstraction licence<br>fees  | 1.906              | -3.840                   | 4.498                      | -2.164            | 0.000  | 3.873              | -9.285                   | 7.951                      | -5.162            | 0.000  | 4C.21        |
| Final determination allowed<br>totex - not subject to cost<br>sharing                          | 38.601             | 166.241                  | 2.702                      | 0.163             | 0.000  | 67.670             | 400.524                  | 8.536                      | 0.428             | 0.000  | 4C.22        |
| Actual totex - not subject to<br>cost sharing  | 8.164              | 17.326                   | 13.200                     | 11.000            | 7.647  | 22.328             | 73.256                   | 48.371                     | 19.223            | 7.647  | 4C.23        |

| Line description                                       |                    | 12 months                | ended 31 Marc              | h 2022            |        |                    | Prico                    | control period             | to data           |           |              |
|--|--------------------|--------------------------|----------------------------|-------------------|--------|--------------------|--------------------------|----------------------------|-------------------|-----------|--------------|
| Units: £m  | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network plus | Bio-<br>resources | ттт    | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network plus | Bio-<br>resources | TTT       | RAG 4<br>Ref |
| Variance - 100% company<br>allocation                  | -30.437            | -50.597                  | 10.498                     | 10.837            | 7.647  | -45.342            | -327.268                 | 39.835                     | 18.795            | 7.647     | 4C.24        |
| Total customer share of totex over/under spend         | 5.717              | 56.210                   | 13.494                     | -6.493            | 0.000  | 11.618             | -27.854                  | 23.852                     | -15.486           | 0.000     | 4C.25        |
| Total customer share of totex over/under spend         | 5.717              | 56.210                   | 13.494                     | -6.493            | 0.000  | 11.618             | -27.854                  | 23.852                     | -15.486           | 0.000     | 4C.26        |
| PAYG rate  | 46.60%             | 43.16%                   | 44.17%                     | 34.49%            | 12.75% | 56.11%             | 43.21%                   | 46.20%                     | 38.66%            | 6.74%     | 4C.27        |
| RCV element of cumulative totex over/underspend        | 3.053              | 31.950                   | 7.534                      | -4.254            | 0.000  | 5.099              | -15.819                  | 12.832                     | -9.499            | 0.000     | 4C.28        |
| Adjustment for ODI out or<br>under performance payment |                    |                          |                            |                   |        | 0.000              | 0.000                    | 0.000                      | 0.000             | 0.000     | 4C.29        |
| Green recovery   |                    |                          |                            |                   |        | 0.000              | -22.272                  | 0.000                      |                   | 0.000     | 4C.30        |
| RCV determined at FD at 31<br>March                    |                    |                          |                            |                   |        | 508.347            | 8,206.167                | 6,644.720                  | 1,894.986         | 1,690.870 | 4C.31        |
| Projected 'shadow' RCV                                 |                    |                          |                            |                   |        | 513.447            | 8,168.075                | 6,657.552                  | 1,885.486         | 1,690.870 | 4C.32        |

#### Notes for the impact of price control performance to date on RCV

At 4C.1, we have amended the allowance figures for Water network plus and TTT, as agreed with Ofwat. This is to remove a double count of conditional allowances expenditure (which is already included under the 'totex not subject to cost sharing' section) and to unwind income associated with TTT land sales and rent, which are not subject to cost sharing.

The RCV element of the totex over/(under)spend is a calculated value which reflects the customer's share of the difference between allowed and actual Totex, multiplied by (1 – the average AMP7 Pay As You Go Rate %) to arrive at the capitalised portion.

Different customer cost sharing rates are applied to the allowance/actuals variance based on individual price control and type of expenditure (i.e. subject to cost sharing, business rates, not subject to cost sharing). Note that this represents a change from prior year report which was showing the company's share of over/(under)spend. Conditional allowances and relevant totex spend are included in the 'totex not subject to cost sharing' totals. We are not subject to any ODI rewards or penalties with an RCV impact; all are taken through allowed revenues.

We are mid AMP, and as such at this stage have not identified for disclosure any AMP-wide inefficiencies across our price controls. Therefore, all differences between totex and the FD have been allocated to timing.

#### Wholesale Water

In 2022/23, our total actual totex (net of disallowable costs, business rates, abstraction licence fees and grants and contributions) for water of £1,120.019 million was £240.841 million higher than the FD allowance of £879.178 million (in 2022/23 prices). Variances to our FD are as follows:

Increased investment to improve customers and stakeholders needs in key areas of our performance e.g. water quality and water supply, leakage and supply interruptions

Increased capital delivery due to material ramp up in FY23, continuing our ramp up from FY22 following a slow start noted in FY21 (impact of COVID19) and transition to a more intelligent and efficient delivery model)

Increased costs due to higher inflation and price rises driven by macroeconomic factors (e.g. power, chemicals, wages).

Disallowable costs include costs associated with customer compensation.

The most material balance within 'actual totex – not subject to cost sharing' relates to non-price control grants and contributions

#### Wastewater Network Plus

In 2022/23, our total actual totex (net of disallowable costs, business rates, abstraction licence fees and grants and contributions) for waste of £944.789 million was £57.511 million higher than our FD allowance of £887.278 million (in 2022/23 prices). Variances to our FD are as follows:

Increased costs due to higher inflation and price rises driven by macroeconomic factors (e.g. power, chemicals, wages)

Disallowable costs include costs associated with customer compensation and pollution provision.

The most material balance within 'actual totex – not subject to cost sharing' relates to non-price control grants and contributions.

### Table 4D: Totex analysis- water resources and water network+

This table provides information about the different activities undertaken as part of delivering upstream services with a breakdown of the total expenditure for carrying out the supply of water services.

| Line description<br>Unit £m  | Water<br>resources | Raw water<br>transport | Network+<br>Raw water<br>storage | Water<br>treatment | - Treated water<br>distribution | Total     | RAG 4<br>Ref |
|--|--------------------|------------------------|----------------------------------|--------------------|---------------------------------|-----------|--------------|
| Base operating expenditure   | 76.214             | 10.651                 | 0.000                            | 121.677            | 359.530                         | 568.072   | 4D.1         |
| Enhancement operating expenditure                                    | 1.910              | 0.000                  | 0.000                            | 0.047              | 8.151                           | 10.108    | 4D.2         |
| Developer<br>services operating<br>expenditure                       | 0.000              | 0.000                  | 0.000                            | 0.000              | 5.651                           | 5.651     | 4D.3         |
| Total operating expenditure excluding third party services           | 78.124             | 10.651                 | 0.000                            | 121.724            | 373.332                         | 583.831   | 4D.4         |
| Third party services   | 0.000              | 0.000                  | 0.000                            | 0.000              | 0.000                           | 0.000     | 4D.5         |
| Total operating expenditure  | 78.124             | 10.651                 | 0.000                            | 121.724            | 373.332                         | 583.831   | 4D.6         |
| Grants and contributions   |                    |                        |                                  |                    |                                 |           |              |
| Grants and contributions - operating expenditure                     | 0.000              | 0.000                  | 0.000                            | 0.000              | 0.608                           | 0.608     | 4D.7         |
| Capital expenditure  |                    |                        |                                  |                    |                                 |           |              |
| Base capital expenditure   | 17.213             | 8.549                  | 0.000                            | 87.073             | 351.306                         | 464.141   | 4D.8         |
| Enhancement capital expenditure                                      | 18.599             | 0.886                  | 0.000                            | 23.236             | 130.119                         | 172.839   | 4D.9         |
| Developer services capital expenditure                               | 0.000              | 0.000                  | 0.000                            | 0.000              | 69.688                          | 69.688    | 4D.10        |
| Total gross capital<br>expenditure excluding third<br>party services | 35.812             | 9.435                  | 0.000                            | 110.309            | 551.113                         | 706.668   | 4D.11        |
| Third party services   | 0.000              | 0.000                  | 0.000                            | 0.000              | 0.000                           | 0.000     | 4D.12        |
| Total gross capital expenditure                                      | 35.812             | 9.435                  | 0.000                            | 110.309            | 551.113                         | 706.668   | 4D.13        |
| Grants and contributions   |                    |                        |                                  |                    |                                 |           |              |
| Grants and contributions - capital expenditure                       | 0.000              | 0.000                  | 0.000                            | 3.034              | 45.388                          | 48.422    | 4D.14        |
| Net totex  | 113.936            | 20.086                 | 0.000                            | 228.999            | 878.449                         | 1,241.469 | 4D.15        |
| Cash expenditure   |                    |                        |                                  |                    |                                 |           |              |
| Pension deficit recovery payments                                    | 0.000              | 0.000                  | 0.000                            | 0.000              | 0.000                           | 0.000     | 4D.16        |
| Other cash items   | 0.000              | 0.000                  | 0.000                            | 0.000              | 0.000                           | 0.000     | 4D.17        |
| Totex including cash items   | 113.936            | 20.086                 | 0.000                            | 228.999            | 878.449                         | 1,241.469 | 4D.18        |
| Atypical expenditure   |                    |                        |                                  |                    |                                 |           |              |
| Total atypical expenditure   | 0.000              | 0.000                  | 0.000                            | 0.000              | 0.000                           | 0.000     | 4D.24        |
|  |                    |                        |                                  |                    |                                 |           |              |

### Table 4E: Totex analysis- wastewater network+ and bioresources

This table provides information about the different activities undertaken as part of delivering upstream services with a breakdown of the total expenditure for carrying out the supply of sewerage services.

|  | Sev     | Network+<br>Sewage collection |                     |  | ork+<br>eatment                           |                     | Bioresources        |                    |         |              |
|--|---------|-------------------------------|---------------------|--|---|---------------------|---------------------|--------------------|---------|--------------|
| Line description<br>Unit £m                                    | Foul    | Surface<br>water<br>drainage  | Highway<br>drainage | Sewage<br>treatment<br>and<br>disposal | Imported<br>sludge<br>liquor<br>treatment | Sludge<br>transport | Sludge<br>treatment | Sludge<br>disposal | Total   | RAG 4<br>Ref |
| Base operating expenditure                                     | 175.278 | 28.775                        | 5.949               | 246.273                                | 14.032                                    | 7.353               | 20.216              | 39.515             | 537.391 | 4E.1         |
| Enhancement operating expenditure                              | 0.214   | 0.000                         | 0.000               | 2.405                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 2.619   | 4E.2         |
| Developer services operating expenditure                       | 2.171   | 0.009                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 2.180   | 4E.3         |
| Total operating expenditure excluding third party services     | 177.663 | 28.784                        | 5.949               | 248.678                                | 14.032                                    | 7.353               | 20.216              | 39.515             | 542.190 | 4E.4         |
| Total third-party services                                     | 0.000   | 0.000                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 0.000   | 4E.5         |
| Total operating expenditure                                    | 177.663 | 28.784                        | 5.949               | 248.678                                | 14.032                                    | 7.353               | 20.216              | 39.515             | 542.190 | 4E.6         |
| Grants and contributions - operating expenditure               | 2.225   | 0.000                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 2.225   | 4E.7         |
| Base capital expenditure                                       | 191.054 | 3.884                         | 1.092               | 156.474                                | 0.001                                     | 0.559               | 76.015              | 15.285             | 444.364 | 4E.8         |
| Enhancement capital expenditure                                | 9.184   | 1.267                         | 0.000               | 188.654                                | 0.000                                     | 0.000               | 6.796               | 2.645              | 208.547 | 4E.9         |
| Developer services capital expenditure                         | 23.334  | -0.023                        | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 23.312  | 4E.10        |
| Total gross capital expenditure excluding third party services | 223.572 | 5.129                         | 1.092               | 345.128                                | 0.001                                     | 0.559               | 82.811              | 17.930             | 676.222 | 4E.11        |

|  | Sev     | Network+<br>Sewage collection |                     |  | ork+<br>reatment                          |                     | Bioresources        |                    |           |              |
|--|---------|-------------------------------|---------------------|--|---|---------------------|---------------------|--------------------|-----------|--------------|
| Line description<br>Unit £m                    | Foul    | Surface<br>water<br>drainage  | Highway<br>drainage | Sewage<br>treatment<br>and<br>disposal | Imported<br>sludge<br>liquor<br>treatment | Sludge<br>transport | Sludge<br>treatment | Sludge<br>disposal | Total     | RAG 4<br>Ref |
| Third party services                           | 0.000   | 0.000                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 0.000     | 4E.12        |
| Total gross capital expenditure                | 223.572 | 5.129                         | 1.092               | 345.128                                | 0.001                                     | 0.559               | 82.811              | 17.930             | 676.222   | 4E.13        |
| Grants and contributions - capital expenditure | 26.873  | 0.017                         | 0.000               | 13.930                                 | 0.000                                     | 0.000               | 0.000               | 0.000              | 40.820    | 4E.14        |
| Net totex                                      | 372.137 | 33.896                        | 7.041               | 579.876                                | 14.033                                    | 7.912               | 103.027             | 57.445             | 1,175.367 | 4E.15        |
| Pension deficit recovery payments              | 0.000   | 0.000                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 0.000     | 4E.16        |
| Other cash items                               | 0.000   | 0.000                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 0.000     | 4E.17        |
| Totex including cash items                     | 372.137 | 33.896                        | 7.041               | 579.876                                | 14.033                                    | 7.912               | 103.027             | 57.445             | 1,175.367 | 4E.18        |
| Total atypical expenditure                     | 0.000   | 0.000                         | 0.000               | 0.000                                  | 0.000                                     | 0.000               | 0.000               | 0.000              | 0.000     | 4E.24        |
|  |         |                               |                     |  |   |                     |                     |                    |           |              |

## Table 4F: Major project expenditure for wholesale water by purpose

This table shows wholesale water major projects operating, and capital expenditure split by purpose category.

|   |                    |                           | Expendit                | ture in report y   | /ear                             |        |       |
|---|--------------------|---------------------------|-------------------------|--------------------|----------------------------------|--------|-------|
| Line description  |                    |                           | Water                   | network+           |                                  |        | RAG 4 |
| Units: £m   | Water<br>resources | Raw<br>water<br>transport | Raw<br>water<br>storage | Water<br>treatment | Treated<br>water<br>distribution | Total  | Ref   |
| Major project expenditure by purpose                      |                    |                           |                         |                    |                                  |        |       |
| Resilience Conditional Allowance                          | 0.000              | 0.000                     | 0.000                   | 4.587              | 0.309                            | 4.896  | 4F.1  |
| Strategic Resourcing Options – Effluent Reuse in London   | 0.000              | 0.000                     | 0.000                   | 5.110              | 0.000                            | 5.110  | 4F.2  |
| Strategic Resourcing Options – Transfer TW-Affinity Water | 0.000              | 0.609                     | 0.000                   | 0.000              | 0.000                            | 0.609  | 4F.3  |
| Strategic Resourcing Options – Transfer TW-Southern       | 0.000              | 0.319                     | 0.000                   | 0.000              | 0.000                            | 0.319  | 4F.4  |
| Strategic Resourcing Options – Abingdon Reservoir (SESRO) | 4.942              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 4.942  | 4F.5  |
| Strategic Resourcing Options – Severn Thames Transfer     | 3.550              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 3.550  | 4F.6  |
| London Water Network Conditional Allowance                | 0.000              | 0.000                     | 0.000                   | 0.000              | 23.582                           | 23.582 | 4F.7  |
| Total major project capital expenditure                   | 8.492              | 0.928                     | 0.000                   | 9.697              | 23.891                           | 43.008 | 4F.11 |
| Resilience Conditional Allowance                          | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.12 |
| Strategic Resourcing Options – Effluent Reuse in London   | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.13 |
| Strategic Resourcing Options – Transfer TW-Affinity Water | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.14 |
| Strategic Resourcing Options – Transfer TW-Southern       | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.15 |
| Strategic Resourcing Options – Abingdon Reservoir (SESRO) | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.16 |
| Strategic Resourcing Options – Severn Thames Transfer     | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.17 |
| London Water Network Conditional Allowance                | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.18 |
| Total major project operating expenditure                 | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 4F.22 |

|   | Cum                | Cumulative expenditure on schemes completed in the report year |                      |                    |                                  |       |       |  |  |  |  |
|---|--------------------|--|----------------------|--------------------|----------------------------------|-------|-------|--|--|--|--|
| Line description  |                    |  | Water ne             | etwork+            |                                  |       | RAG 4 |  |  |  |  |
| Units: £m   | Water<br>resources | Raw water<br>transport   | Raw water<br>storage | Water<br>treatment | Treated<br>water<br>distribution | Total | Ref   |  |  |  |  |
| Major project expenditure by purpose                      |                    |  |                      |                    |                                  |       |       |  |  |  |  |
| Resilience Conditional Allowance                          | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.1  |  |  |  |  |
| Strategic Resourcing Options – Effluent Reuse in London   | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.2  |  |  |  |  |
| Strategic Resourcing Options – Transfer TW-Affinity Water | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.3  |  |  |  |  |
| Strategic Resourcing Options – Transfer TW-Southern       | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.4  |  |  |  |  |
| Strategic Resourcing Options – Abingdon Reservoir (SESRO) | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.5  |  |  |  |  |
| Strategic Resourcing Options – Severn Thames Transfer     | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.6  |  |  |  |  |
| London Water Network Conditional Allowance                | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.7  |  |  |  |  |
| Total major project capital expenditure                   | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.11 |  |  |  |  |
| Resilience Conditional Allowance                          | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.12 |  |  |  |  |
| Strategic Resourcing Options – Effluent Reuse in London   | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.13 |  |  |  |  |
| Strategic Resourcing Options – Transfer TW-Affinity Water | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.14 |  |  |  |  |
| Strategic Resourcing Options – Transfer TW-Southern       | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.15 |  |  |  |  |
| Strategic Resourcing Options – Abingdon Reservoir (SESRO) | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.16 |  |  |  |  |
| Strategic Resourcing Options – Severn Thames Transfer     | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.17 |  |  |  |  |
| London Water Network Conditional Allowance                | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.18 |  |  |  |  |
| Total major project operating expenditure                 | 0.000              | 0.000  | 0.000                | 0.000              | 0.000                            | 0.000 | 4F.22 |  |  |  |  |

### Table 4G: Major project expenditure for wholesale wastewater by purpose

This table shows wholesale wastewater major projects operating, and capital expenditure split by purpose category. No spend is disclosed in relation to this table as there are no waste-related projects within the Business that meet the RAG 4.11 definition of 'major projects'.

|   |                   | Expenditure in report year   |                     |                              |                     |                     |                     |                    |       |              |  |
|---|-------------------|------------------------------|---------------------|------------------------------|---------------------|---------------------|---------------------|--------------------|-------|--------------|--|
|   |                   | W                            | astewater ne        | twork+                       | Bioresources        |                     |                     |                    |       | 5164         |  |
| Line description<br>Units: £m             | Sewage collection |                              |                     | Sewage                       | Sludge              |                     |                     |                    | Total | RAG 4<br>Ref |  |
|   | Foul              | Surface<br>water<br>drainage | Highway<br>drainage | treatment<br>and<br>disposal | liquor<br>treatment | Sludge<br>transport | Sludge<br>treatment | Sludge<br>disposal | Total |              |  |
| Total major project capital expenditure   | 0.000             | 0.000                        | 0.000               | 0.000                        | 0.000               | 0.000               | 0.000               | 0.000              | 0.000 | 4G.11        |  |
| Total major project operating expenditure | 0.000             | 0.000                        | 0.000               | 0.000                        | 0.000               | 0.000               | 0.000               | 0.000              | 0.000 | 4G.22        |  |

| -   |       | Cumulative expenditure on schemes completed in the report year |                     |                              |                     |                     |                     |                    |       |              |  |
|---|-------|--|---------------------|------------------------------|---------------------|---------------------|---------------------|--------------------|-------|--------------|--|
|   |       | Wa   | astewater ne        | etwork+                      |                     | Bioresources        |                     |                    |       |              |  |
| Line description<br>Units: £m             | Se    | Sewage collectio   |                     | Sewage                       | Sludge              |                     |                     |                    | Total | RAG 4<br>Ref |  |
|   | Foul  | Surface<br>water<br>drainage                                   | Highway<br>drainage | treatment<br>and<br>disposal | liquor<br>treatment | Sludge<br>transport | Sludge<br>treatment | Sludge<br>disposal | Total |              |  |
| Total major project capital expenditure   | 0.000 | 0.000  | 0.000               | 0.000                        | 0.000               | 0.000               | 0.000               | 0.000              | 0.000 | 4G.11        |  |
| Total major project operating expenditure | 0.000 | 0.000  | 0.000               | 0.000                        | 0.000               | 0.000               | 0.000               | 0.000              | 0.000 | 4G.22        |  |

### Table 4H: Financial metrics

This table shows our key financial metrics: measures of financial performance and financial position, revenue earned, earnings before interest, tax, depreciation and amortisation and an analysis of our borrowings in terms of interest payable and their maturity profile.

| Line description  | Units | Current year            | AMP to date | RAG 4<br>Ref |
|---|-------|-------------------------|-------------|--------------|
| Net debt  | £m    | 14,676.397              |             | 4H.1         |
| Regulatory equity   | £m    | 4,268.693               |             | 4H.2         |
| Regulatory gearing  | %     | 77.47%                  |             | 4H.3         |
| Post tax return on regulatory equity  | %     | -8.16%                  |             | 4H.4         |
| RORE (return on regulatory equity) <sup>74</sup>                            | %     | 2.57%                   | 1.90%       | 4H.5         |
| Dividend yield  | %     | 1.06%                   |             | 4H.6         |
| Retail profit margin - Household  | %     | -4.54%                  |             | 4H.7         |
| Retail profit margin - Non household  | %     | 0.32%                   |             | 4H.8         |
| Credit rating - Fitch   | Text  | n/a                     |             | 4H.9         |
| Credit rating - Moody's   | Text  | BAA2 (Stable)           |             | 4H.10        |
| Credit rating - Standard and Poor's <sup>75</sup>                           | Text  | BBB (Stable<br>outlook) |             | 4H.11        |
| Return on RCV   | %     | 2.13%                   |             | 4H.12        |
| Dividend cover  | dec   | -6.78                   |             | 4H.13        |
| Funds from operations (FFO)   | £m    | 833.122                 |             | 4H.14        |
| Interest cover (cash)   | dec   | 3.42                    |             | 4H.15        |
| Adjusted interest cover (cash)  | dec   | 0.07                    |             | 4H.16        |
| FFO/Net debt  | dec   | 0.06                    |             | 4H.17        |
| Effective tax rate  | %     | 23.88%                  |             | 4H.18        |
| Retained cash flow (RCF)  | £m    | 787.922                 |             | 4H.19        |
| RCF/Net debt  | dec   | 0.05                    |             | 4H.20        |
| Proportion of borrowings which are fixed rate                               | %     | 38.82%                  |             | 4H.21        |
| Proportion of borrowings which are floating rate                            | %     | 3.55%                   |             | 4H.22        |
| Proportion of borrowings which are index linked                             | %     | 57.63%                  |             | 4H.23        |
| Proportion of borrowings due within 1 year or less                          | %     | 10.25%                  |             | 4H.24        |
| Proportion of borrowings due in more than 1 year but no more than 2 years   | %     | 5.27%                   |             | 4H.25        |
| Proportion of borrowings due in more than 2 years but no more than 5 years  | %     | 21.24%                  |             | 4H.26        |
| Proportion of borrowings due in more than 5 years but no more than 20 years | %     | 42.88%                  |             | 4H.27        |
| Proportion of borrowings due in more than 20 years                          | %     | 20.36%                  |             | 4H.28        |

#### Additional commentary on our financial metrics

<sup>&</sup>lt;sup>74</sup> As disclosed in Table 1F, the calculation of RORE includes other exceptional items relating to land sales, pollution fines and customer compensation claims.

<sup>&</sup>lt;sup>75</sup> Standard and Poor's ("S&P's") placed the credit rating on credit watch with negative implications on 30 June 2023.

TWUL Group retains investment grade credit ratings, which allow us to access efficiently priced debt to fund our investment programme whilst keeping bills affordable for our customers.

In December 2022, Moody's completed a periodic review of TWUL Group ratings, with the Corporate Family Rating ("CFR") for TWUL continuing as BAA2 with a stable outlook (31 March 2022: BAA2 with stable outlook) and our securitisation group companies' senior secured (Class A) debt rating continuing as BAA1 with stable outlook (31 March 2022: BAA1 with stable outlook) and subordinated (Class B) debt rating continuing as BA1 with stable outlook (31 March 2022: BA1 with stable outlook).

In September 2022, S&P lowered the ratings of the Company's Class A debt to BBB (31 March 2022: BBB+) and Class B debt to BB+ (31 March 2022: BBB-), with stable outlook (31 March 2022: CreditWatch negative).

#### Breakdown of interest paid

|  | £m       |
|--|----------|
| Net interest paid (1D.10)  | -195.379 |
| Income included in net interest paid but should be added back for the interest   | cover    |
| Interest received on Intercompany loans  | -55.684  |
| Interest received on Money market deposits                                       | -7.819   |
| Other finance income   | -1.019   |
| Cost included in the net interest paid but should be reduced for the interest co | ver      |
| Interest cost relating to pension  | 6.700    |
| Facility non-recurring fees  | 9.245    |
| Other finance cost   | 0.153    |
| Net interest paid  | -243.803 |

## Table 4I: Financial derivatives

This table provides an analysis of our portfolio of financial derivatives.

| Line description                   |         |                   |                    | Financ    | cial derivatives       | – Total           |                                   |         |            |              |
|------------------------------------|---------|-------------------|--------------------|-----------|------------------------|-------------------|-----------------------------------|---------|------------|--------------|
|                                    | Non     | ninal value by ma | turity (net) at 31 | March     | Total value at         | t 31 March        |                                   | Intere  | est rate   |              |
| Years                              | 0 to 1  | 1 to 2            | 2 to 5             | Over 5    | Nominal<br>value (net) | Mark to<br>Market | Total<br>accretion at<br>31 March | Payable | Receivable | RAG 4<br>ref |
| Units (to 3 dps.)                  | £m      | £m                | £m                 | £m        | £m                     | £m                | £m                                | %       | %          |              |
| Interest rate swap (sterling)      |         |                   |                    |           |                        |                   |                                   |         |            |              |
| Floating to fixed rate             | 0.000   | 150.000           | 0.000              | 2,100.000 | 2,250.000              | -252.978          | 0.000                             | 1.933%  | 4.455%     | 41.1         |
| Floating from fixed rate           | 0.000   | 0.000             | 0.000              | 1,920.902 | 1,920.902              | 310.952           | 0.000                             | 4.454%  | 1.083%     | 41.2         |
| Floating to index linked           | 0.000   | 0.000             | 20.000             | 500.000   | 520.000                | 255.173           | 145.043                           | 20.139% | 4.313%     | 41.3         |
| Floating from index linked         | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.4         |
| Fixed to index-linked              | 0.000   | 940.000           | 0.000              | 3,158.901 | 4,098.901              | 392.586           | 781.406                           | 15.683% | 4.426%     | 41.5         |
| Fixed from index-linked            | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.6         |
| Index-linked to index-linked       | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.7         |
| Total                              | 0.000   | 1,090.000         | 20.000             | 7,679.803 | 8,789.803              | 705.733           | 926.449                           |         |            | 41.8         |
| Foreign Exchange                   |         |                   |                    |           |                        |                   |                                   |         |            |              |
| Cross currency swap USD            | 128.783 | 200.436           | 272.573            | 510.160   | 1,111.952              | -16.890           | 0.000                             |         |            | 41.9         |
| Cross currency swap EUR            | 453.230 | 0.000             | 1,059.597          | 1,414.399 | 2,927.226              | 51.054            | 0.000                             |         |            | 41.10        |
| Cross currency swap YEN            | 0.000   | 0.000             | 0.000              | 153.551   | 153.551                | 0.896             | 0.000                             |         |            | 41.11        |
| Cross currency swap Oher           | 0.000   | 143.554           | 0.000              | 0.000     | 143.554                | -1.948            | 0.000                             |         |            | 41.12        |
| Total                              | 582.013 | 343.990           | 1,332.170          | 2,078.110 | 4,336.283              | 33.112            | 0.000                             |         |            | 41.13        |
| Currency interest rate             |         |                   |                    |           |                        |                   |                                   |         |            |              |
| Currency interest rate swaps USD   | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.14        |
| Currency interest rate swaps EUR   | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 4I.15        |
| Currency interest rate swaps YEN   | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 4I.16        |
| Currency interest rate swaps Other | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.17        |
| Total                              | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 4I.18        |
| Forward currency contracts         |         |                   |                    |           |                        |                   |                                   |         |            |              |
| Forward currency contracts USD     | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.19        |
| Forward currency contracts EUR     | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.20        |
| Forward currency contracts YEN     | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.21        |
| Forward currency contracts CAD     | 0.000   | 0.000             | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.22        |

| Line description                      |                |                  |                    | Financ    | cial derivatives       | – Total           |                                   |         |            |              |
|---------------------------------------|----------------|------------------|--------------------|-----------|------------------------|-------------------|-----------------------------------|---------|------------|--------------|
|                                       | Nom            | inal value by ma | turity (net) at 31 | March     | Total value at         | 31 March          |                                   | Inter   | est rate   |              |
| Years                                 | 0 to 1         | 1 to 2           | 2 to 5             | Over 5    | Nominal<br>value (net) | Mark to<br>Market | Total<br>accretion at<br>31 March | Payable | Receivable | RAG 4<br>ref |
| Units (to 3 dps.)                     | £m             | £m               | £m                 | £m        | £m                     | £m                | £m                                | %       | %          |              |
| Forward currency contracts AUD        | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.23        |
| Forward currency contracts HKD        | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.24        |
| Forward currency contracts Other      | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.25        |
| Total                                 | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.26        |
| Other financial derivatives           |                |                  |                    |           |                        |                   |                                   |         |            |              |
| Other financial derivatives           | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.27        |
| Total financial derivatives           | 582.013        | 1,433.990        | 1,352.170          | 9,757.913 | 13,126.086             | 738.845           | 926.449                           |         |            | 41.28        |
| Financial derivatives – (A) Super-sen | ior swaps with | breaks or accre  | etion paydowns     |           |                        |                   |                                   |         |            |              |
| Interest rate swap (sterling)         |                |                  |                    |           |                        |                   |                                   |         |            |              |
| Floating to fixed rate                | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.29        |
| Floating from fixed rate              | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.30        |
| Floating to index linked              | 0.000          | 0.000            | 0.000              | 500.000   | 500.000                | 255.888           | 137.199                           | 20.247% | 4.211%     | 41.31        |
| Floating from index linked            | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.32        |
| Fixed to index-linked                 | 0.000          | 0.000            | 0.000              | 744.051   | 744.051                | 298.670           | 117.161                           | 21.061% | 5.348%     | 41.33        |
| Fixed from index-linked               | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.34        |
| Index-linked to index-linked          | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.35        |
| Total                                 | 0.000          | 0.000            | 0.000              | 1,244.051 | 1,244.051              | 554.558           | 254.360                           |         |            | 41.36        |
| Foreign Exchange                      |                |                  |                    |           |                        |                   |                                   |         |            |              |
| Cross currency swap USD               | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.37        |
| Cross currency swap EUR               | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.38        |
| Cross currency swap YEN               | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.39        |
| Cross currency swap Other             | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.40        |
| Total                                 | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.41        |
| Currency interest rate                |                |                  |                    |           |                        |                   |                                   |         |            |              |
| Currency interest rate swaps USD      | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.42        |
| Currency interest rate swaps EUR      | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.43        |
| Currency interest rate swaps YEN      | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.44        |
| Currency interest rate swaps Other    | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.45        |
| Total                                 | 0.000          | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.46        |

| Line description                       |              |                    |                    | Financ    | ial derivatives -      | - Total           |                                   |         |            |              |
|--|--------------|--------------------|--------------------|-----------|------------------------|-------------------|-----------------------------------|---------|------------|--------------|
|  | Nom          | ninal value by ma  | turity (net) at 31 | March     | Total value at         | 31 March          |                                   | Inter   | est rate   |              |
| Years                                  | 0 to 1       | 1 to 2             | 2 to 5             | Over 5    | Nominal<br>value (net) | Mark to<br>Market | Total<br>accretion at<br>31 March | Payable | Receivable | RAG 4<br>ref |
| Units (to 3 dps.)                      | £m           | £m                 | £m                 | £m        | £m                     | £m                | £m                                | %       | %          |              |
| Forward currency contracts             |              |                    |                    |           |                        |                   |                                   |         |            |              |
| Forward currency contracts USD         | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.47        |
| Forward currency contracts EUR         | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.48        |
| Forward currency contracts YEN         | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.49        |
| Forward currency contracts CAD         | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.50        |
| Forward currency contracts AUD         | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.51        |
| Forward currency contracts HKD         | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.52        |
| Forward currency contracts Other       | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.53        |
| Total                                  | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.54        |
| Other financial derivatives            |              |                    |                    |           |                        |                   |                                   |         |            |              |
| Other financial derivatives            | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.55        |
| Total financial derivatives            | 0.000        | 0.000              | 0.000              | 1,244.051 | 1,244.051              | 554.558           | 254.360                           |         |            | 41.56        |
| Financial derivatives – (B) Pari-passu | swaps with b | reaks or accretion | on paydowns        |           |                        |                   |                                   |         |            |              |
| Interest rate swap (sterling)          |              |                    |                    |           |                        |                   |                                   |         |            |              |
| Floating to fixed rate                 | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.57        |
| Floating from fixed rate               | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.58        |
| Floating to index linked               | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.59        |
| Floating from index linked             | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.60        |
| Fixed to index-linked                  | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.61        |
| Fixed from index-linked                | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.62        |
| Index-linked to index-linked           | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.63        |
| Total                                  | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.64        |
| Foreign Exchange                       |              |                    |                    |           |                        |                   |                                   |         |            |              |
| Cross currency swap USD                | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.65        |
| Cross currency swap EUR                | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.66        |
| Cross currency swap YEN                | 0.000        | 0.000              | 0.000              | 153.551   | 153.551                | 0.896             | 0.000                             |         |            | 41.67        |
| Cross currency swap Other              | 0.000        | 0.000              | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.68        |
| Total                                  | 0.000        | 0.000              | 0.000              | 153.551   | 153.551                | 0.896             | 0.000                             |         |            | 41.69        |
| Currency interest rate                 |              |                    |                    |           |                        |                   |                                   |         |            |              |

| Line description                       |               |                  |                    | Financ    | ial derivatives -      | - Total           |                                   |         |            |              |
|--|---------------|------------------|--------------------|-----------|------------------------|-------------------|-----------------------------------|---------|------------|--------------|
|  | Nom           | inal value by ma | turity (net) at 31 | March     | Total value at         | 31 March          |                                   | Inter   | est rate   |              |
| Years                                  | 0 to 1        | 1 to 2           | 2 to 5             | Over 5    | Nominal<br>value (net) | Mark to<br>Market | Total<br>accretion at<br>31 March | Payable | Receivable | RAG 4<br>ref |
| Units (to 3 dps.)                      | £m            | £m               | £m                 | £m        | £m                     | £m                | £m                                | %       | %          |              |
| Currency interest rate swaps USD       | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.70        |
| Currency interest rate swaps EUR       | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.71        |
| Currency interest rate swaps YEN       | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.72        |
| Currency interest rate swaps Other     | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.73        |
| Total                                  | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.74        |
| Forward currency contracts             |               |                  |                    |           |                        |                   |                                   |         |            |              |
| Forward currency contracts USD         | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.75        |
| Forward currency contracts EUR         | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.76        |
| Forward currency contracts YEN         | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.77        |
| Forward currency contracts CAD         | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.78        |
| Forward currency contracts AUD         | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.79        |
| Forward currency contracts HKD         | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.80        |
| Forward currency contracts Other       | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.81        |
| Total                                  | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.82        |
| Other financial derivatives            |               |                  |                    |           |                        |                   |                                   |         |            |              |
| Other financial derivatives            | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.83        |
| Total financial derivatives            | 0.000         | 0.000            | 0.000              | 153.551   | 153.551                | 0.896             | 0.000                             |         |            | 41.84        |
| Interest rate swap (sterling)          |               |                  |                    |           |                        |                   |                                   |         |            |              |
| Financial derivatives - (C) Super-seni | or swaps with | out breaks or ac | cretion paydowr    | าร        |                        |                   |                                   |         |            |              |
| Floating to fixed rate                 | 0.000         | 150.000          | 0.000              | 2,100.000 | 2,250.000              | -252.978          | 0.000                             | 1.933%  | 4.455%     | 41.85        |
| Floating from fixed rate               | 0.000         | 0.000            | 0.000              | 1,920.902 | 1,920.902              | 310.952           | 0.000                             | 4.454%  | 1.083%     | 41.86        |
| Floating to index linked               | 0.000         | 0.000            | 20.000             | 0.000     | 20.000                 | -0.715            | 7.844                             | 17.432% | 6.855%     | 41.87        |
| Floating from index linked             | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.88        |
| Fixed to index-linked                  | 0.000         | 940.000          | 0.000              | 2,414.850 | 3,354.850              | 93.916            | 664.245                           | 14.490% | 4.221%     | 41.89        |
| Fixed from index-linked                | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.90        |
| Index-linked to index-linked           | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.91        |
| Total                                  | 0.000         | 1,090.000        | 20.000             | 6,435.752 | 7,545.752              | 151.175           | 672.089                           |         |            | 41.92        |
| Foreign Exchange                       |               |                  |                    |           |                        |                   |                                   |         |            |              |
| Cross currency swap USD                | 0.000         | 0.000            | 0.000              | 0.000     | 0.000                  | 0.000             | 0.000                             |         |            | 41.93        |

| Line description                       |        |                   |                    | Financ    | ancial derivatives – Total |                   |                                   |         |            |              |
|--|--------|-------------------|--------------------|-----------|----------------------------|-------------------|-----------------------------------|---------|------------|--------------|
|  | Nom    | ninal value by ma | turity (net) at 31 | March     | Total value at             | 31 March          |                                   | Inter   | est rate   |              |
| Years                                  | 0 to 1 | 1 to 2            | 2 to 5             | Over 5    | Nominal<br>value (net)     | Mark to<br>Market | Total<br>accretion at<br>31 March | Payable | Receivable | RAG 4<br>ref |
| Units (to 3 dps.)                      | £m     | £m                | £m                 | £m        | £m                         | £m                | £m                                | %       | %          |              |
| Cross currency swap EUR                | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.94        |
| Cross currency swap YEN                | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.95        |
| Cross currency swap Other              | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.96        |
| Total                                  | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.97        |
| Currency interest rate                 |        |                   |                    |           |                            |                   |                                   |         |            |              |
| Currency interest rate swaps USD       | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.98        |
| Currency interest rate swaps EUR       | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.99        |
| Currency interest rate swaps YEN       | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.100       |
| Currency interest rate swaps Other     | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.101       |
| Total                                  | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.102       |
| Forward currency contracts             |        |                   |                    |           |                            |                   |                                   |         |            |              |
| Forward currency contracts USD         | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.103       |
| Forward currency contracts EUR         | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.104       |
| Forward currency contracts YEN         | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.105       |
| Forward currency contracts CAD         | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.106       |
| Forward currency contracts AUD         | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.107       |
| Forward currency contracts HKD         | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.108       |
| Forward currency contracts Other       | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.109       |
| Total                                  | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.110       |
| Other financial derivatives            |        |                   |                    |           |                            |                   |                                   |         |            |              |
| Other financial derivatives            | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             |         |            | 41.111       |
| Total financial derivatives            | 0.000  | 1,090.000         | 20.000             | 6,435.752 | 7,545.752                  | 151.175           | 672.089                           |         |            | 41.112       |
| Financial derivatives – (D) Other swap |        |                   |                    |           |                            |                   |                                   |         |            |              |
| Interest rate swap (sterling)          |        |                   |                    |           |                            |                   |                                   |         |            |              |
| Floating to fixed rate                 | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.113       |
| Floating from fixed rate               | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.114       |
| Floating to index linked               | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.115       |
| Floating from index linked             | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.116       |
| Fixed to index-linked                  | 0.000  | 0.000             | 0.000              | 0.000     | 0.000                      | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.117       |

| Line description                   |         |                  |                    | Financ    | ncial derivatives – Total |                   |                                   |         |            |              |
|------------------------------------|---------|------------------|--------------------|-----------|---------------------------|-------------------|-----------------------------------|---------|------------|--------------|
|                                    | Nom     | inal value by ma | turity (net) at 31 | March     | Total value at            | 31 March          |                                   | Intere  | est rate   |              |
| Years                              | 0 to 1  | 1 to 2           | 2 to 5             | Over 5    | Nominal<br>value (net)    | Mark to<br>Market | Total<br>accretion at<br>31 March | Payable | Receivable | RAG 4<br>ref |
| Units (to 3 dps.)                  | £m      | £m               | £m                 | £m        | £m                        | £m                | £m                                | %       | %          |              |
| Fixed from index-linked            | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.118       |
| Index-linked to index-linked       | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             | 0.000%  | 0.000%     | 41.119       |
| Total                              | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.120       |
| Foreign Exchange                   |         |                  |                    |           |                           |                   |                                   |         |            |              |
| Cross currency swap USD            | 128.783 | 200.436          | 272.573            | 510.160   | 1,111.952                 | -16.890           | 0.000                             |         |            | 41.121       |
| Cross currency swap EUR            | 453.230 | 0.000            | 1,059.597          | 1,414.399 | 2,927.226                 | 51.054            | 0.000                             |         |            | 41.122       |
| Cross currency swap YEN            | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.123       |
| Cross currency swap Other          | 0.000   | 143.554          | 0.000              | 0.000     | 143.554                   | -1.948            | 0.000                             |         |            | 41.124       |
| Total                              | 582.013 | 343.990          | 1,332.170          | 1,924.559 | 4,182.732                 | 32.216            | 0.000                             |         |            | 41.125       |
| Currency interest rate             |         |                  |                    |           |                           |                   |                                   |         |            |              |
| Currency interest rate swaps USD   | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.126       |
| Currency interest rate swaps EUR   | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.127       |
| Currency interest rate swaps YEN   | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.128       |
| Currency interest rate swaps Other | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.129       |
| Total                              | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.130       |
| Forward currency contracts         |         |                  |                    |           |                           |                   |                                   |         |            |              |
| Forward currency contracts USD     | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.131       |
| Forward currency contracts EUR     | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.132       |
| Forward currency contracts YEN     | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.133       |
| Forward currency contracts CAD     | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.134       |
| Forward currency contracts AUD     | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 4I.135       |
| Forward currency contracts HKD     | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.136       |
| Forward currency contracts Other   | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.137       |
| Total                              | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 4I.138       |
| Other financial derivatives        |         |                  |                    |           |                           |                   |                                   |         |            |              |
| Other financial derivatives        | 0.000   | 0.000            | 0.000              | 0.000     | 0.000                     | 0.000             | 0.000                             |         |            | 41.139       |
| Total financial derivatives        | 582.013 | 343.990          | 1,332.170          | 1,924.559 | 4,182.732                 | 32.216            | 0.000                             |         |            | 41.140       |

#### Notes for table 4I

Interest rate payable and receivable for floating leg of derivatives has been determined using 31 March 2023 Sonia plus relevant margins.

Instruments which change from "fixed to index linked" to "floating to index linked" during their life have been classified according to their interest rate characteristics as at 31 March 2023.

Mark to Market is presented from Thames Water's Perspective.

Out-of-the money (liability) positions are presented as positive and in-the-money (asset) positions are presented as negative.

The interest rate in column 'interest rate payable/receivable' for index-linked debt uses a denominator net of accretion paydowns, whilst the accretion element of the interest rate comes from a larger notional (due to accretion paydowns of £730.6 million)

The total mark-to-market figure in Table 4I excludes (i) FX element of the principal of swaps which hedge foreign currency debt; (ii) accretion on inflation-linked swaps; (iii) accrued interest on swaps. The figures in 4V have been presented on the same basis, as stated in 4.67 of the guidelines.

#### Fair value reconciliation of table 4B to table 4I

|   | £m        |
|---|-----------|
| Fair value of swaps as per Table 4B   | 1,598.196 |
| Add   |           |
| Fair value of cross currency swaps included in debt lines fair value figure as foreign currency debt is shown post swap | -55.445   |
| FX on cross currency Swaps  | 94.754    |
| Accrued interest on Swaps   | 27.789    |
| Less  |           |
| Accretion on Swaps  | -926.449  |
| Fair value of swaps as per table 4I/1C  | 738.845   |

## Table 4J: Base expenditure analysis- water resources and water network+

This table shows our base expenditure for wholesale water split by cost categories.

|  |                    |                        | Water ne             | etwork+            |                                  |         |             |
|--|--------------------|------------------------|----------------------|--------------------|----------------------------------|---------|-------------|
| Line description<br>Units: £m  | Water<br>resources | Raw water distribution | Raw water<br>storage | Water<br>treatment | Treated<br>water<br>distribution | Total   | RAG4<br>Ref |
| Power  | 26.120             | 1.628                  | 0.000                | 31.328             | 51.172                           | 110.248 | 4J.1        |
| Income treated as negative expenditure   | -0.250             | 0.001                  | 0.000                | 0.097              | 0.009                            | -0.143  | 4J.2        |
| Bulk Supply/Bulk discharge   | 4.894              | 0.000                  | 0.000                | 0.000              | 0.000                            | 4.894   | 4J.3        |
| Renewals expensed in year (infrastructure)   | 0.000              | 0.000                  | 0.000                | 0.000              | 94.160                           | 94.160  | 4J.4        |
| Renewals expensed in year (non-infrastructure)   | 0.000              | 0.000                  | 0.000                | 0.000              | 0.000                            | 0.000   | 4J.5        |
| Other operating expenditure  | 18.547             | 3.287                  | 0.000                | 85.502             | 121.511                          | 228.847 | 4J.6        |
| Local authority and Cumulo rates   | 3.324              | 5.735                  | 0.000                | 4.750              | 57.515                           | 71.324  | 4J.7        |
| Canal & River Trust<br>abstraction charges/<br>discharge consents                      | 4.400              | 0.000                  | 0.000                | 0.000              | 0.000                            | 4.400   | 4J.8        |
| Environment Agency / NRW<br>abstraction charges/<br>discharge consents                 | 18.931             | 0.000                  | 0.000                | 0.000              | 0.000                            | 18.931  | 4J.9        |
| Other abstraction charges/<br>discharge consents                                       | 0.248              | 0.000                  | 0.000                | 0.000              | 0.000                            | 0.248   | 4J.10       |
| Costs associated with Traffic<br>Management Act  | 0.000              | 0.000                  | 0.000                | 0.000              | 32.451                           | 32.451  | 4J.11       |
| Costs associated with lane rental schemes  | 0.000              | 0.000                  | 0.000                | 0.000              | 2.712                            | 2.712   | 4J.12       |
| Statutory water softening  | 0.000              | 0.000                  | 0.000                | 0.000              | 0.000                            | 0.000   | 4J.13       |
| Total base operating expenditure   | 76.214             | 10.651                 | 0.000                | 121.677            | 359.530                          | 568.072 | 4J.14       |
| Maintaining the long-term<br>capability of the assets -<br>infra                       | 6.076              | 6.507                  | 0.000                | -0.960             | 190.610                          | 202.233 | 4J.15       |
| Maintaining the long-term<br>capability of the assets -<br>non-infra                   | 11.137             | 2.042                  | 0.000                | 88.033             | 160.696                          | 261.908 | 4J.16       |
| Total base capital expenditure   | 17.213             | 8.549                  | 0.000                | 87.073             | 351.306                          | 464.141 | 4J.17       |
| Projects incurring costs<br>associated with Traffic<br>Management Act<br>(nr to 0 DPs) | 0                  | 0                      | 0                    | 0                  | 89,202                           | 89,202  | 4J.18       |

### Table 4K: Base expenditure - wastewater network + and bioresources

This table shows our base expenditure for wholesale wastewater split by cost categories.

|  |         |                              |                     | Expe                                   | nditure in repo               | ort year            |                     |                    |         |              |
|--|---------|------------------------------|---------------------|--|-------------------------------|---------------------|---------------------|--------------------|---------|--------------|
| Line description   |         | Wa                           | astewater ne        | twork+                                 |                               |                     | Bioresources        |                    |         |              |
| Units: £m  | Foul    | Surface<br>water<br>drainage | Highway<br>drainage | Sewage<br>treatment<br>and<br>disposal | Sludge<br>liquor<br>treatment | Sludge<br>Transport | Sludge<br>Treatment | Sludge<br>Disposal | Total   | RAG 4<br>Ref |
| Power  | 20.108  | 3.481                        | 0.604               | 95.452                                 | 9.220                         | 0.016               | -13.862             | 1.258              | 116.277 | 4K.1         |
| Income treated as negative expenditure   | -0.007  | -0.001                       | 0.000               | -0.007                                 | 0.000                         | 0.000               | -17.682             | -0.811             | -18.508 | 4K.2         |
| Bulk Supply/Bulk discharge   | 0.000   | 0.000                        | 0.000               | 2.966                                  | 0.000                         | 0.000               | 0.000               | 0.000              | 2.966   | 4K.3         |
| Renewals expensed in year (infrastructure)                                       | 62.484  | 10.903                       | 1.805               | 0.000                                  | 0.000                         | 0.000               | 0.000               | 0.000              | 75.192  | 4K.4         |
| Renewals expensed in year (non-infrastructure)                                   | 0.000   | 0.000                        | 0.000               | 0.000                                  | 0.000                         | 0.000               | 0.000               | 0.000              | 0.000   | 4K.5         |
| Other operating expenditure  | 89.422  | 13.854                       | 3.450               | 101.770                                | 4.812                         | 7.312               | 49.786              | 38.965             | 309.371 | 4K.6         |
| Local authority and Cumulo rates   | 0.000   | 0.000                        | 0.000               | 43.670                                 | 0.000                         | 0.000               | 0.450               | 0.049              | 44.169  | 4K.7         |
| Canal & River Trust abstraction charges/ discharge<br>consents                   | 0.800   | 0.140                        | 0.023               | 0.000                                  | 0.000                         | 0.000               | 0.000               | 0.000              | 0.963   | 4K.8         |
| EA / NRW abstraction charges/ discharge consents                                 | 1.239   | 0.183                        | 0.031               | 2.367                                  | 0.000                         | 0.021               | 1.391               | 0.054              | 5.286   | 4K.9         |
| Other abstraction charges/ discharge consents                                    | 0.402   | 0.070                        | 0.012               | 0.055                                  | 0.000                         | 0.004               | 0.080               | 0.000              | 0.623   | 4K.10        |
| Costs associated with Traffic Management Act                                     | 0.539   | 0.094                        | 0.016               | 0.000                                  | 0.000                         | 0.000               | 0.000               | 0.000              | 0.649   | 4K.11        |
| Costs associated with lane rental schemes  | 0.291   | 0.051                        | 0.008               | 0.000                                  | 0.000                         | 0.000               | 0.000               | 0.000              | 0.350   | 4K.12        |
| Costs associated with Industrial emissions directive                             | 0.000   | 0.000                        | 0.000               | 0.000                                  | 0.000                         | 0.000               | 0.053               | 0.000              | 0.053   | 4K.13        |
| Total base operating expenditure   | 175.278 | 28.775                       | 5.949               | 246.273                                | 14.032                        | 7.353               | 20.216              | 39.515             | 537.391 | 4K.14        |
| Maintaining the long-term capability of the assets - infra                       | 124.394 | 0.006                        | 0.096               | 0.000                                  | 0.000                         | 0.366               | 0.000               | 0.000              | 124.862 | 4K.15        |
| Maintaining the long-term capability of the assets - non-<br>infra               | 66.660  | 3.878                        | 0.996               | 156.474                                | 0.001                         | 0.193               | 76.015              | 15.285             | 319.502 | 4K.16        |
| Total base capital expenditure   | 191.054 | 3.884                        | 1.092               | 156.474                                | 0.001                         | 0.559               | 76.015              | 15.285             | 444.364 | 4K.17        |
| Projects incurring costs associated with Traffic<br>Management Act (nr to 0 DPs) | 5,925   | 1,034                        | 171                 | 0                                      | 0                             | 0                   | 0                   | 0                  | 7,130   | 4K.18        |
| Power  | 20.108  | 3.481                        | 0.604               | 95.452                                 | 0.000                         | 0.016               | -4.642              | 1.258              | 116.277 | 4K.19        |
| Income treated as negative expenditure   | -0.007  | -0.001                       | 0.000               | -0.007                                 | 0.000                         | 0.000               | -17.682             | -0.811             | -18.508 | 4K.20        |

## Table 4L: Enhancement expenditure - water resources and water network+

We've chosen to publish the regulatory table 4L as a separate document to this Annual Performance Report due to the size of the table.

You can view this table on our website.

#### Notes to table 4L

#### Supply-Demand Management

The development of the regional water resources plan (WRSE) and WRMP24 process continues. We published our draft WRMP in December 2022 and carried out a 14 week consultation period receiving over 1600 representations. We are now on-track for the publication the Statement of Response to all representation on the draft WRMP, and our revised draft WRMP plan at the end of August 2023. We are also working in collaboration with four other water companies to publish five strategic regional water resources solutions; these are a reservoir, South East Strategic Resource Option, three transfers, Severn to Thames Transfer, Thames to Southern Transfer and Thames to Affinity Transfer, and London Water Recycling.

We published our Gate 2 reports against the required guidance in November 2022 covering the detailed feasibility, concept design, environmental benefits and impacts, and other requirements. All five strategic option have continued development to Gate 3 to meet the requirements set out by Ofwat ad aligned to the WRSE / WRMP plans. The final decision for Gate 2 has confirmed the continuation of all five. Our Gate 2 spend was seen to be efficient. We have continued development of supply side options and development of an interconnector main in our Guildford WRZ.

#### Smart metering

Our current strategy is to install AMI smart meters in our optant, progressive and replacement programmes. These meters can be read in AMR or AMI modes when an LCE is installed, in areas of fixed network coverage. All meters installed are therefore classified as 'smart' based on the definition outlined by Ofwat. However, there will be instances when a non-household (NHH) customer may request a meter that allows third-party logger compatibility through the NHH Retail market, or for our HH customers request a 'basic' meter for religious grounds.

The metering programme was impacted by the global shortage of microprocessors which caused, and continues to affect, meter stock availability. The metering programme has been accordingly reprofiled & alternative technological solutions for delivering smart meters in the Thames Valley region are being explored

#### Additional lines

The following additional lines have been included in comparison to the Ofwat proforma table:

Feasibility assessments -> These relate to impact studies performed within developer services, which in the previous AMP were included within 'New Development & Growth" but disaggregated going forward for transparency

Improving the performance of London water networks: This relates to an additional FD conditional allowance, over and above the capital maintenance mains replacement programme, to improve the performance of the London water network and improve customer service.

Unplanned Outage improvement: This relates to an FD allowance, over and above the base allowance, for improvements to unplanned outage performance and provide resilient supplies to

customers. This investment is required to achieve the stretching performance commitment target of 2.34% unplanned outage in 2024-25.

## Table 4M: Enhancement expenditure - wastewater network+ and bioresources

We've chosen to publish the regulatory table 4M as a separate document to this Annual Performance Report due to the size of the table.

You can view this table on our website.

#### Notes to table 4M

The following additional lines have been included in comparison to the Ofwat proforma table:

Feasibility assessments: These relate to impact studies performed within developer services, which have historically been included within 'New Development & Growth" but disaggregated going forward for transparency.

Lee Tunnel: This line was added to capture and report the expenditure on the Lee Tunnel project separately in order to be consistent with previous AMP's annual performance reporting submissions.

Enhanced sewer cleaning programme (1200km): Sewer cleaning programme contributes to the improved performance of our network with respect to blockage avoidance and flooding alleviation and such has been classified as an enhancement expenditure.

New development and growth -> This line was added to capture and report the expenditure on new development and growth that cannot be reclaimed through infrastructure charges which is now reported separately in tables 4N, 4O & 4P.

## Table 4N: Developer services expenditure- water resources and water network+

|                                      | W      | /ater network+ |        |      |
|--------------------------------------|--------|----------------|--------|------|
| Line description                     | Treate | RAG 4<br>Ref   |        |      |
|                                      | Capex  | Opex           | Totex  |      |
| New connections                      | 31.313 | 2.227          | 33.540 | 4N.1 |
| Requisition mains                    | 10.190 | 1.072          | 11.262 | 4N.2 |
| Infrastructure network reinforcement | 11.463 | 0.262          | 11.725 | 4N.3 |
| s185 diversions                      | 3.130  | 0.439          | 3.569  | 4N.4 |
| Other price-controlled activities    | 0.000  | 0.000          | 0.000  | 4N.5 |
| Total developer services expenditure | 56.096 | 4.000          | 60.096 | 4N.6 |

#### Notes to table 4N

This table shows our developer services expenditure for wholesale water split by cost categories.

Capital expenditure reported in this table includes asset payments made to self-lay providers/developers. These relate to work quoted under Charging Arrangements prior to April 2020 where the Discounted Aggregate Deficit ("DAD") model was used to determine the value of Thames Water contributions to these schemes.

A review of our network reinforcement policy took place following Ofwat's comments in the PR24 methodology that our definition was too narrow and confirming that all foreseeable developer applications can be recovered through infrastructure charges.

We have applied the new policy to Network Reinforcement schemes back to 2018-19 and the resulting reclassification of expenditure to Network Reinforcement has been included in the 2022-23 reported expenditure in table 2J.

These total £5m and will be a reconciling difference to this table 4N as it only reports expenditure in the financial year. This table excludes the fair value of adopted assets.

## Table 4O: Developer services expenditure- wastewater network+ and bioresources

This table shows our developer services expenditure for wholesale wastewater split by cost categories.

| Line description                        |        | Was                          |                     | – Total                                | RAG 4                         |        |       |
|---|--------|------------------------------|---------------------|--|-------------------------------|--------|-------|
| Units: £m                               | Foul   | Surface<br>water<br>drainage | Highway<br>drainage | Sewage<br>treatment<br>and<br>disposal | Sludge<br>liquor<br>treatment | Totai  | Ref   |
| New connections                         | 1.040  | 0.000                        | 0.000               | 0.000                                  | 0.000                         | 1.040  | 40.1  |
| Requisition sewers                      | 0.769  | -0.033                       | 0.000               | 0.000                                  | 0.000                         | 0.736  | 40.2  |
| Infrastructure network reinforcement    | 9.132  | 0.000                        | 0.000               | 0.000                                  | 0.000                         | 9.132  | 40.3  |
| s185 diversions                         | 0.307  | 0.010                        | 0.000               | 0.000                                  | 0.000                         | 0.317  | 40.4  |
| Other price-controlled activities       | 0.000  | 0.000                        | 0.000               | 0.000                                  | 0.000                         | 0.000  | 40.5  |
| Total developer services capex          | 11.248 | -0.023                       | 0.000               | 0.000                                  | 0.000                         | 11.225 | 40.6  |
| New connections                         | 0.110  | 0.001                        | 0.000               | 0.000                                  | 0.000                         | 0.111  | 40.7  |
| Requisition sewers                      | 0.081  | 0.001                        | 0.000               | 0.000                                  | 0.000                         | 0.082  | 40.8  |
| Infrastructure network<br>reinforcement | 0.253  | 0.003                        | 0.000               | 0.000                                  | 0.000                         | 0.256  | 40.9  |
| s185 diversions                         | 0.035  | 0.000                        | 0.000               | 0.000                                  | 0.000                         | 0.035  | 40.10 |
| Other price-controlled activities       | 0.443  | 0.004                        | 0.000               | 0.000                                  | 0.000                         | 0.447  | 40.11 |
| Total developer services opex           | 0.922  | 0.009                        | 0.000               | 0.000                                  | 0.000                         | 0.931  | 40.12 |
| Total developer services expenditure    | 12.170 | -0.014                       | 0.000               | 0.000                                  | 0.000                         | 12.156 | 40.13 |

#### Notes to table 40

A review of our network reinforcement policy took place following Ofwat's comments in the PR24 methodology that our definition was too narrow and confirming that all foreseeable developer applications can be recovered through infrastructure charges.

We have applied the new policy to Network Reinforcement schemes back to 2018-19 and the resulting reclassification of expenditure to Network Reinforcement has been included in the 2022-23 reported expenditure in table 2J. These total £3m and will be a reconciling difference to this table 4O as it only reports expenditure in the financial year.

This table excludes the fair value of adopted assets.

## Table 4P: Expenditure on non-price control diversions for the 12 months ended 31 March 2023

This table shows our expenditure on diversions not covered by a price control.

| I  |                    |                   | 5 1                    |        |              |
|--|--------------------|-------------------|------------------------|--------|--------------|
| Line description<br>Units: £m                            | Water<br>resources | Water<br>network+ | Wastewater<br>network+ | Total  | RAG 4<br>Ref |
| Capex associated with NSWRA <sup>76</sup> diversions     | 0.000              | 1.621             | 0.142                  | 1.763  | 4P.1         |
| Capex associated with other non-price control diversions | 0.000              | 3.923             | 11.945                 | 15.868 | 4P.2         |
| Other developer services non-<br>price control capex     | 0.000              | 8.047             | 0.000                  | 8.047  | 4P.3         |
| Developer services non-price control capex               | 0.000              | 13.591            | 12.087                 | 25.678 | 4P.4         |
| Opex associated with NSWRA diversions                    | 0.000              | 0.078             | 0.028                  | 0.106  | 4P.5         |
| Opex associated with other non-price control diversions  | 0.000              | 0.207             | 0.115                  | 0.322  | 4P.6         |
| Other developer services non-<br>price control opex      | 0.000              | 1.366             | 1.106                  | 2.472  | 4P.7         |
| Developer services non-price control opex                | 0.000              | 1.651             | 1.249                  | 2.900  | 4P.8         |
| Costs associated with NSWRA diversions                   | 0.000              | 1.699             | 0.170                  | 1.869  | 4P.9         |
| Costs associated with other non-price control diversions | 0.000              | 4.130             | 12.060                 | 16.190 | 4P.10        |
| Other developer services non-<br>price control totex     | 0.000              | 9.413             | 1.106                  | 10.519 | 4P.11        |
| Developer services non-price control totex               | 0.000              | 15.242            | 13.336                 | 28.578 | 4P.12        |
|  |                    |                   |                        |        |              |

This table includes all expenditure attributable to work delivered under the High-Speed Rail (London-West Midlands) Act 2017, which may include an element of new asset.

This includes £0.7m of operating expenditure disclosed within 'Other Developer Services Non-Price Control Totex' attributable to work performed which will ultimately not result in diversionary activity taking place.

This table excludes the fair value of adopted assets.

<sup>76</sup> The New Road and Street Works Act (NRSWA) provides a legal framework for street and highway works in the UK.

## Table 4Q: Developer services – New connections, properties and mains

This table reports on the new connections, properties and new mains laid within the developer services part of the business split by water and wastewater.

| Line description<br>Units: nr                     | Water  | Wastewater | Total  | RAG 4<br>Ref |
|---|--------|------------|--------|--------------|
| New connections<br>(residential – excluding NAVs) | 11,467 | 1,646      | 13,113 | 4Q.1         |
| New connections<br>(business – excluding NAVs)    | 919    | 428        | 1,347  | 4Q.2         |
| Total new connections served by incumbent         | 12,386 | 2074       | 14,460 | 4Q.3         |
| New connections – SLPs                            | 6,021  |            |        | 4Q.4         |
| New properties<br>(residential - excluding NAVs)  | 22,110 | 41,760     | 63,870 | 4Q.5         |
| New properties<br>(business - excluding NAVs)     | 1,023  | 837        | 1,860  | 4Q.6         |
| Total new properties served by incumbent          | 23,133 | 42,597     | 65,730 | 4Q.7         |
| New residential properties served by NAVs         | 1,208  | 1,909      | 3,117  | 4Q.8         |
| New business properties served by NAVs            | 10     | 10         | 20     | 4Q.9         |
| Total new properties served by NAVs               | 1,218  | 1,919      | 3,137  | 4Q.10        |
| Total new properties                              | 24,351 | 44,516     | 68,867 | 4Q.11        |
| New properties – SLP connections                  | 6,021  |            |        | 4Q.12        |
| Length of new mains (km) - requisitions           | 10     |            |        | 4Q.13        |
| Length of new mains (km) - SLPs                   | 43     |            |        | 4Q.14        |

## Table 4R: Connected properties, customers and population

This table reports our connected properties, and our customer and population numbers (in 000s).

| Line description<br>Units: nr (000s)       | Unmeasured | Measured  | Total     | Voids   | RAG 4<br>Ref |
|--|------------|-----------|-----------|---------|--------------|
| Residential water only customers           | 25.817     | 24.621    | 50.438    | 1.755   | 4R.1         |
| Residential wastewater only customers      | 664.064    | 1,372.285 | 2,036.349 | 66.831  | 4R.2         |
| Residential water and wastewater customers | 1,701.495  | 1,922.842 | 3,624.337 | 126.092 | 4R.3         |
| Total residential customers                | 2,391.376  | 3,319.748 | 5,711.124 | 194.677 | 4R.4         |
| Business water only customers              | 1.067      | 12.776    | 13.843    | 4.340   | 4R.5         |
| Business wastewater only customers         | 14.110     | 62.459    | 76.569    | 15.970  | 4R.6         |
| Business water & wastewater customers      | 28.697     | 134.373   | 163.070   | 30.381  | 4R.7         |
| Total business customers                   | 43.874     | 209.608   | 253.482   | 50.691  | 4R.8         |
| Total customers                            | 2,435.250  | 3,529.356 | 5,964.606 | 245.368 | 4R.9         |

| Line description                       |            | Water     |           |            | Wastewater |           | RAG 4 |
|--|------------|-----------|-----------|------------|------------|-----------|-------|
| Units: Nr (000s)                       | Unmeasured | Measured  | Total     | Unmeasured | Measured   | Total     | Ref   |
| Residential properties billed          | 1,727.312  | 1,947.463 | 3,674.775 | 2,365.559  | 3,295.127  | 5,660.686 | 4R.10 |
| Residential void properties            |            |           | 127.847   |            |            | 192.922   | 4R.11 |
| Total connected residential properties |            |           | 3,802.622 |            |            | 5,853.608 | 4R.12 |
| Business properties billed             | 29.763     | 147.149   | 176.912   | 42.808     | 196.825    | 239.633   | 4R.13 |
| Business void properties               |            |           | 34.721    |            |            | 46.355    | 4R.14 |
| Total connected business properties    |            |           | 211.633   |            |            | 285.988   | 4R.15 |
| Total connected properties             |            |           | 4,014.255 |            |            | 6,139.596 | 4R.16 |

| Line description                                       |           |             | Water Ur  | nmeasured              |                       |           |
|--|-----------|-------------|-----------|------------------------|-----------------------|-----------|
| Units: nr (000s)                                       | No meter  | Basic meter | AMR meter | AMI meter<br>(capable) | AMI meter<br>(active) | Total     |
| Property and meter numbers - at end of year (31 March) |           |             |           |                        |                       |           |
| Total new residential properties connected in year     |           |             |           |                        |                       | 0.000     |
| Total number of new business properties connections    |           |             |           |                        |                       | 0.000     |
| Residential properties billed at year end              | 1,685.846 |             |           |                        |                       | 1,685.846 |
| Residential properties unbilled at year end            |           |             |           |                        |                       |           |
| Residential void properties at year end                | _         |             |           |                        |                       | 55.342    |
| Total connected residential properties at year end     |           |             |           |                        |                       | 1,741.188 |
| Business properties billed at year end                 | 29.025    | 0.000       | 0.000     | 0.000                  | 0.000                 | 29.025    |
| Business properties unbilled at year end               |           |             |           |                        |                       |           |
| Business void properties at year end                   |           |             |           |                        |                       | 9.493     |
| Total connected business properties at year end        |           |             |           |                        |                       | 38.518    |
| Total connected properties at year end                 |           |             |           |                        |                       | 1,779.706 |

| Line department                                     |          |             | Water Me  | easured                |                       |           |
|---|----------|-------------|-----------|------------------------|-----------------------|-----------|
| Line description<br>Units: Nr (000s)                | No meter | Basic meter | AMR meter | AMI meter<br>(capable) | AMI meter<br>(active) | Total     |
| Total new residential properties connected in year  |          |             | 22.110    |                        |                       | 22.110    |
| Total number of new business properties connections |          |             | 1.023     |                        | ·                     | 1.023     |
| Residential properties billed at year end           |          | 1,201.267   | 203.230   | 14.085                 | 593.591               | 2,012.173 |
| Residential properties unbilled at year end         |          |             |           |                        |                       |           |
| Residential void properties at year end             |          |             |           |                        |                       | 67.527    |
| Total connected residential properties at year end  |          |             |           |                        |                       | 2,079.700 |
| Business properties billed at year end              |          | 98.839      |           | 15.662                 | 31.338                | 145.839   |
| Business properties unbilled at year end            |          |             |           |                        |                       |           |
| Business void properties at year end                |          |             |           |                        |                       | 26.249    |
| Total connected business properties at year end     |          |             |           |                        |                       | 172.088   |
| Total connected properties at year end              |          |             |           |                        |                       | 2,251.788 |

|   | Water                 |       |       |           |       |  |  |  |
|---|-----------------------|-------|-------|-----------|-------|--|--|--|
| Line description                                    |                       |       |       | RAG 4     |       |  |  |  |
| Line description                                    | Uneconomic to<br>bill | Other | Total | Total     | Ref   |  |  |  |
| Total new residential properties connected in year  |                       |       |       | 22.110    | 4R.17 |  |  |  |
| Total number of new business properties connections |                       |       |       | 1.023     | 4R.18 |  |  |  |
| Residential properties billed at year end           |                       |       |       | 3,698.019 | 4R.19 |  |  |  |
| Residential properties unbilled at year end         | 6.263                 |       | 6.263 | 6.263     | 4R.20 |  |  |  |
| Residential void properties at year end             |                       |       |       | 122.869   | 4R.21 |  |  |  |
| Total connected residential properties at year end  |                       |       |       | 3,827.151 | 4R.22 |  |  |  |
| Business properties billed at year end              |                       |       |       | 174.864   | 4R.23 |  |  |  |
| Business properties unbilled at year end            |                       |       | 0.000 | 0.000     | 4R.24 |  |  |  |
| Business void properties at year end                |                       |       |       | 35.742    | 4R.25 |  |  |  |
| Total connected business properties at year end     |                       |       |       | 210.606   | 4R.26 |  |  |  |
| Total connected properties at year end              |                       |       |       | 4,037.757 | 4R.27 |  |  |  |

| Line description 77                  | Water      | Wastewater | RAG 4<br>Ref |
|--------------------------------------|------------|------------|--------------|
| Resident population                  | 10,379.727 | 15,626.994 | 4R.28        |
| Non-resident population (wastewater) |            | 379.045    | 4R.29        |

|  |                     | Water                                       |            |       |  |  |  |
|--|---------------------|---|------------|-------|--|--|--|
| Household population data                    | Resident population | Resident population Non-resident population |            |       |  |  |  |
| Household population                         | 10,275.884          | 0.000                                       | 10,275.884 | 4R.30 |  |  |  |
| Household measured population (water only)   | 5,794.741           | 0.000                                       | 5,794.741  | 4R.31 |  |  |  |
| Household unmeasured population (water only) | 4,481.142           | 0.000                                       | 4,481.142  | 4R.32 |  |  |  |

#### Additional commentary on population data

#### Line 28: Water resident population

We have made a change to our methodology as the latest Office for National Statistics ("ONS") estimates are based on the census conducted on 21 March 2021; this was during a COVID-19 lockdown which affected the resident and transient populations in our region, particularly in London. The ONS have advised us whilst the 2021 census is viewed with a high degree of accuracy at a national level, the impact of COVID-19 could have led to a miscalculation of the resident population, particularly in London and other urban areas where a fair amount of the population have some degree of mobility.

The ONS state on their website that the 2021 mid-year estimate ("MYE") "will not reflect a noncoronavirus pandemic usually resident population in England and Wales". We have therefore decided to use the same base resident population data as used at AR22 (ONS mid-year estimate 2020) plus predicted growth from mid-2020 to April 2023. We aim to return to using the standard ONS MYE from next APR when further census 2021 data has been released.

The total resident population consists of five data sources:

- 'Official' resident population As mentioned above, our usual methodology would take the ONS mid-year population of our wastewater area (by totalling all of the census output area populations within our boundary). Due to issues with the Census 2021, we have instead used the AR22 resident population (based on ONS MYE 2020).
- Projected Growth Projected growth from the latest ONS MYE to April of the reporting year, calculated by Edge Analytics (demographic data analysis specialists), based on predicted housing growth.
- 3. Irregular Migrants This typically refers to those who are not entitled to reside there, either because they have never had a legal residence permit or because they have overstayed their time-limited permit. The estimate of irregular migrants within our wastewater area has been calculated by Edge Analytics based on published research.
- 4. Short-term residents This population is defined as anyone living in an area, who was born outside of the UK and intended to stay for a period of between 3 and 12 months. The estimate of short-term residents within our wastewater area has been calculated by Edge Analytics based on the 2011 census.
- 5. Ukrainian Refugees Following the Russian invasion of Ukraine in February 2022, the UK government created a series of new visa schemes to support Ukrainian's seeking refuge from the war in the UK. The estimate of Ukrainian refugees within our wastewater area has been calculated by Edge Analytics based on the number of visas issued under the Ukraine Family and Sponsorship Schemes.

#### Line 29: Wastewater Non-resident population

The non-resident or annual average holiday and tourist population connected to our sewerage system is the sum of Domestic visitor nights and Foreign visitor nights. Both of these have been estimated by Edge Analytics.

For the last two APRs, we adjusted these estimates to take account of the impact of COVID-19 lockdowns and restrictions on tourism. We have not made an adjustment for APR23 as, since February 2022, occupancy rates have returned to the 2016-2018 average, even exceeding this average in October and November 2022.

#### Definitions of visitor nights

Domestic visitor nights: the population of domestic overnight visitors in our wastewater area. Edge Analytics have used the Great Britain Tourism Survey ("GBTS"), which provides a 3-year (2016-2018) average annual count of domestic visitor nights for each Local Authority area. The GBTS was suspended in March 2020 due to the COVID-19 pandemic, therefore no data is available for 2020 and limited data is available for 2021. Data for 2022 is yet to be published. To account for the change in visitors since 2016-2018, regional adjustment factors have been applied using the accommodation occupancy statistics published by Visit Britain, comparing the 2016-2018 annual average occupancy to the 2022 annual average occupancy.

Foreign visitor nights: the population of foreign overnight visitors in our wastewater area. The International Passenger Survey ("IPS") provides a count of foreign visitor nights in 2016, 2017 and 2018 for each sub-region of the UK. The 2016-2018 average annual visitor count from the IPS has been adjusted to reflect the post COVID-19 situation. An inbound visitor forecast, generated by Visit Britain, estimated that the number of inbound visits to the UK in 2022 totalled 29.7m, 74% of the 2016-2018 average levels.

### Table 4S: Green recovery expenditure- water resources and water network+

|                                |                    | E                         | xpenditure ir           | n report year      |                                  | Cumulative expenditure on schemes completed in the report year |                    |                           |                         |                    |                                  |       |              |
|--------------------------------|--------------------|---------------------------|-------------------------|--------------------|----------------------------------|--|--------------------|---------------------------|-------------------------|--------------------|----------------------------------|-------|--------------|
| Line description<br>Units: £m  |                    | Water network+            |                         |                    |                                  |  |                    | Water                     | network+                |                    |                                  |       |              |
|                                | Water<br>resources | Raw<br>water<br>transport | Raw<br>water<br>storage | Water<br>treatment | Treated<br>water<br>distribution | Total  | Water<br>resources | Raw<br>water<br>transport | Raw<br>water<br>storage | Water<br>treatment | Treated<br>water<br>distribution | Total | RAG 4<br>Ref |
| Green recovery programme       |                    |                           |                         |                    |                                  |  |                    |                           |                         |                    |                                  |       |              |
| Smart metering capex           | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062  | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062 | 4S.1         |
| Smart metering opex            | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000 | 4S.2         |
| Smart metering totex           | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062  | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062 | 4S.3         |
| Total programme capex          | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062  | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062 | 4S.13        |
| Total programme opex           | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000  | 0.000              | 0.000                     | 0.000                   | 0.000              | 0.000                            | 0.000 | 4S.14        |
| Total programme<br>expenditure | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062  | 0.000              | 0.000                     | 0.000                   | 0.000              | 1.062                            | 1.062 | 4S.15        |

### Table 4T: Green recovery expenditure- wastewater network+ and bioresources

This table is only applicable for companies with wastewater network+ and bioresources green recovery projects, and therefore has not been included within this report.

## Table 4U: Impact of Green recovery on RCV

|   |                    | 12 months                | s ended 31 M                  | arch 2023         |        |                    | Price co              | ontrol period to              | o date            |        |              |
|---|--------------------|--------------------------|-------------------------------|-------------------|--------|--------------------|-----------------------|-------------------------------|-------------------|--------|--------------|
| Line description<br>Units: £m                 | Water<br>resources | Water<br>network<br>plus | Wastewater<br>network<br>plus | Bio-<br>resources | TTT    | Water<br>resources | Water<br>network plus | Wastewater<br>network<br>plus | Bio-<br>resources | ттт    | RAG 4<br>Ref |
| Approved bid                                  | 0.000              | 23.811                   | 0.000                         |                   | 0.000  | 0.000              | 26.989                | 0.000                         |                   | 0.000  | 4U.1         |
| Actual totex                                  | 0.000              | 1.062                    | 0.000                         |                   | 0.000  | 0.000              | 1.062                 | 0.000                         |                   | 0.000  | 4U.2         |
| Variance                                      | 0.000              | -22.749                  | 0.000                         |                   | 0.000  | 0.000              | -25.927               | 0.000                         |                   | 0.000  | 4U.3         |
| Variance due to timing of expenditure         | 0.000              | -22.749                  | 0.000                         |                   | 0.000  | 0.000              | -25.927               | 0.000                         |                   | 0.000  | 4U.4         |
| Variance due to efficiency                    | 0.000              | 0.000                    | 0.000                         |                   | 0.000  | 0.000              | 0.000                 | 0.000                         |                   | 0.000  | 4U.5         |
| Customer cost sharing rate - outperformance   | 90.00%             | 90.00%                   | 90.00%                        |                   | 90.00% | 90.00%             | 90.00%                | 90.00%                        |                   | 90.00% | 4U.6         |
| Customer cost sharing rate - underperformance | 25.00%             | 25.00%                   | 25.00%                        |                   | 42.20% | 25.00%             | 25.00%                | 25.00%                        |                   | 42.20% | 4U.7         |
| Customer share of totex - outperformance      | 0.000              | -20.474                  | 0.000                         |                   | 0.000  | 0.000              | -23.334               | 0.000                         |                   | 0.000  | 4U.8         |
| Customer share of totex -<br>underperformance | 0.000              | 0.000                    | 0.000                         |                   | 0.000  | 0.000              | 0.000                 | 0.000                         |                   | 0.000  | 4U.9         |
| Company share of totex - outperformance       | 0.000              | -2.275                   | 0.000                         |                   | 0.000  | 0.000              | -2.593                | 0.000                         |                   | 0.000  | 4U.10        |
| Company share of totex-<br>underperformance   | 0.000              | 0.000                    | 0.000                         |                   | 0.000  | 0.000              | 0.000                 | 0.000                         |                   | 0.000  | 4U.11        |
| Increase / decrease in shadow RCV             | 0.000              | -19.412                  | 0.000                         |                   | 0.000  | 0.000              | -22.272               | 0.000                         |                   | 0.000  | 4U.12        |
| In period funding                             | 0.000              | 0.000                    | 0.000                         |                   | 0.000  | 0.000              | 0.000                 | 0.000                         |                   | 0.000  | 4U.13        |
| Net increase / decrease in shadow RCV         | 0.000              | -19.412                  | 0.000                         |                   | 0.000  | 0.000              | -22.272               | 0.000                         |                   | 0.000  | 4U.14        |

| Table 4V: Mark-to-market of financial derivatives and | nalysed based on payment dates |
|---|--------------------------------|
|---|--------------------------------|

| Line description             | Units | DPs | Derivative     | Derivatives - Analysed by earliest payment date |                             |         | Derivatives - Analysed by expected maturity date |                              |                          |         |              |
|------------------------------|-------|-----|----------------|---|-----------------------------|---------|--|------------------------------|--------------------------|---------|--------------|
|                              |       |     | Net<br>settled | Gross<br>Settled<br>outflows                    | Gross<br>Settled<br>inflows | Total   | Net settled                                      | Gross<br>Settled<br>outflows | Gross Settled<br>inflows | Total   | RAG 4<br>ref |
| Due within one year          | £m    | 3   | 0.000          | 573.134   | -573.362                    | -0.228  | 0.000  | 573.134                      | -573.362                 | -0.228  | 4V.1         |
| Between one and two years    | £m    | 3   | 18.212         | 332.674   | -338.760                    | 12.126  | 18.212   | 332.674                      | -338.760                 | 12.126  | 4V.2         |
| Between two and three years  | £m    | 3   | -0.715         | 215.626   | -214.730                    | 0.181   | -0.715   | 0.000                        | 0.000                    | -0.715  | 4V.3         |
| Between three and four years | £m    | 3   | 0.000          | 245.426   | -247.065                    | -1.639  | 0.000  | 245.426                      | -247.065                 | -1.639  | 4V.4         |
| Between four and five years  | £m    | 3   | 0.000          | 1,091.634                                       | -1,076.520                  | 15.114  | 0.000  | 1,091.634                    | -1,076.520               | 15.114  | 4V.5         |
| After five years             | £m    | 3   | 688.235        | 2,068.966                                       | -2,043.910                  | 713.291 | 688.235  | 2,284.592                    | -2,258.640               | 714.187 | 4V.6         |
| Total                        | £m    | 3   | 705.732        | 4,527.460                                       | -4,494.347                  | 738.845 | 705.732  | 4,527.460                    | -4,494.347               | 738.845 | 4V.7         |

#### Notes to table 4V

The total mark-to-market figures in Table 4V have been presented on the same basis as in Table 4I, as stated in 4.67 of the guidelines. The total mark-to-market figure excludes (i) FX element of the principal of swaps which hedge foreign currency debt; (ii) accretion on inflation-linked swaps; (iii) accrued interest on swaps.

These adjustments have been implemented as follows:(i) FX element has been adjusted on the foreign currency leg of the cross currency swap (ii) Accretion has been applied to the pay leg of the inflation-linked swaps(iii) Accrued interest has been adjusted on the Gross settled outflows or inflows as relevant for the cross currency swaps, for other swaps these have been adjusted on the Net settled section.

Cross currency swaps: All settled on a Gross basis, with the credit adjustment element of the mark-to-market either applied to the receive leg to reduce the market value receivable or to the pay leg to reduce the market value owed, depending on signage.

Interest rate swaps: Interest payment dates may not match in every case between pay leg and receive leg, but there is no final principal exchange at maturity. Our valuation system includes a principal exchange at maturity in reporting the valuation of each leg, which nets out in the overall mark-to-market value. For this reason we present all of our interest rate swaps as settled on a Net Basis.

Index-linked swaps: Interest payment dates may not match in every case between pay leg and receive leg, but there is no final principal exchange at maturity aside from the payment of inflation accretion. Our valuation system includes a principal exchange at maturity in reporting the valuation of each leg, which nets out in the overall mark-to-market value. For this reason we present all of our index-linked swaps as settled on a Net Basis.

Out-of-the money (liability) positions are presented as positive and in-the-money (asset) positions are presented as negative.

# Table 4W: Defined Benefit Pension Scheme – Additional Information

| Line dependention   | Linite                            | DDa                   | Defined benef                           | it pension schemes  | RAG 4 |
|---|-----------------------------------|-----------------------|---|---|-------|
| Line description  | Units                             | DPs                   | Pension scheme 1                        | Pension scheme 2  | ref   |
| Scheme name   | Text                              | n/a                   | Thames Water Pension<br>Scheme ("TWPS") | Thames Water Mirror Image<br>Pension Scheme ("TWMIPS")  | 4W.1  |
| Closed to new members<br>Scheme status Text n/a and closed to future accrual<br>as of 31 March 2021 |                                   | Closed to new members | 4W.2                                    |   |       |
| Scheme valuation unde   | er IAS/IF                         | RS/FR                 | 5                                       |   |       |
| Scheme assets   | £m                                | 3                     | 1,145.500                               | 538.100   | 4W.3  |
| Scheme liabilities  | £m                                | 3                     | 1,327.500                               | 532.100   | 4W.4  |
| Scheme surplus /<br>(deficit) Total   | £m                                | 3                     | -182.000                                | 6.000   | 4W.5  |
| Scheme surplus /<br>(deficit) Appointed<br>business   | £m                                | 3                     | 0.000                                   | 0.000   | 4W.6  |
| Pension deficit recovery payments   | £m                                | m 3 0.000             |   | 0.000   | 4W.7  |
| Scheme valuation under  | er part 3                         | of Pen                | sions Act 2004                          |   |       |
| Scheme funding Date n/a   |                                   | 31/03/2019            | 31/03/2019                              | 4W.8  |       |
| Assets  | £m                                | 3                     | 1,516.600                               | 805.300   | 4W.9  |
| Technical Provisions  | £m                                | 3                     | 1,732.500                               | 738.300   | 4W.10 |
| Scheme surplus /<br>(deficit)   | £m                                | 3                     | -215.900                                | 67.000  | 4W.11 |
| Discount rate assumptions   | Discount rate Text n/a Gilt yield |                       | Gilt yield<br>curve + 1%                | Fixed-interest gilt yield curve<br>plus 0.57% p.a. at 31 March<br>2019<br>declining gradually to plus<br>0.5% p.a. at 31 March 2022 | 4W.12 |
| Recovery plan (where a  | applicab                          | le)                   |   |   |       |
| Recovery Plan<br>Structure  | Text                              | n/a                   | £17.9 P.A from 2025 to 2027             | N/A   | 4W.13 |
| Recovery plan end date  | Date                              | n/a                   | 2027                                    | N/A   | 4W.14 |
| Asset Backed<br>Funding (ABF)<br>arrangements   | Text                              | n/a                   | N/A - no ABF<br>arrangements.           | N/A - no ABF arrangements.  | 4W.15 |
| Responsibility for ABF arrangements   | Text                              | n/a                   | N/A - no ABF<br>arrangements.           | N/A - no ABF arrangements.  | 4W.16 |

Section 5 information - water

Additional regulatory resources

### Table 5A: Water resources asset and volumes data

This table reports a breakdown of assets and their volumes for the water resources price control.

| Line description  | Units | Input       | RAG 4<br>Ref |
|---|-------|-------------|--------------|
| Water from impounding reservoirs  | MI/d  | 72.74       | 5A.1         |
| Water from pumped storage reservoirs  | MI/d  | 1,914.30    | 5A.2         |
| Water from river abstractions   | MI/d  | 68.14       | 5A.3         |
| Water from groundwater works, excluding managed aquifer recharge water supply schemes | MI/d  | 688.89      | 5A.4         |
| Water from artificial recharge water supply schemes                                   | MI/d  | 39.67       | 5A.5         |
| Water from aquifer storage and recovery water supply schemes                          | MI/d  | 0.00        | 5A.6         |
| Water from saline abstractions  | MI/d  | 0.00        | 5A.7         |
| Water from water reuse schemes  | MI/d  | 0.00        | 5A.8         |
| Number of impounding reservoirs   | nr    | 1           | 5A.9         |
| Number of pumped storage reservoirs   | nr    | 21          | 5A.10        |
| Number of river abstractions  | nr    | 14          | 5A.11        |
| Number of groundwater works excluding managed aquifer recharge water supply schemes   | nr    | 111         | 5A.12        |
| Number of artificial recharge water supply schemes                                    | nr    | 33          | 5A.13        |
| Number of aquifer storage and recovery water supply schemes                           | nr    | 0           | 5A.14        |
| Number of saline abstraction schemes  | nr    | 0           | 5A.15        |
| Number of reuse schemes   | nr    | 0           | 5A.16        |
| Total number of sources   | nr    | 180         | 5A.17        |
| Total number of water reservoirs  | nr    | 22          | 5A.18        |
| Total volumetric capacity of water reservoirs   | MI    | 218,347     | 5A.19        |
| Total number of intake and source pumping stations                                    | nr    | 171         | 5A.20        |
| Total installed power capacity of intake and source pumping stations                  | kW    | 42,081      | 5A.21        |
| Total length of raw water abstraction mains and other conveyors                       | km    | 11.21       | 5A.22        |
| Average pumping head – raw water abstraction  | m.hd  | 9.46        | 5A.23        |
| Energy consumption<br>- water resources (MWh)   | MWh   | 135,196.663 | 5A.24        |
| Total number of raw water abstraction imports   | nr    | 1           | 5A.25        |
| Water imported from 3rd parties to raw water abstraction systems                      | MI/d  | 0.00        | 5A.26        |
| Total number of raw water abstraction exports   | nr    | 0           | 5A.27        |
| Water exported to 3rd parties from raw water abstraction systems                      | MI/d  | 0.00        | 5A.28        |
| Water resources capacity (measured using water resources yield)                       | MI/d  | 3171.41     | 5A.29        |
| Total number of completed investigations (WINEP/NEP), cum. for AMP                    |       | 9.00        | 5A.30        |
|   |       |             |              |

#### Additional commentary on water resources asset and volumes data

## Lines 12 – 14: Baseload groundwater, artificial recharge and aquifer storage and recovery water supply schemes

There have been no changes to the methodology this year. However, the number of groundwater works in use increased from 101 to 111 due to supply challenges during the drought. Similarly, the number of artificial recharge schemes increased from 6 to 33. We do not have any Aquifer Storage and Recovery sources.

#### Line 22: Total length of raw water abstraction mains and other conveyors

Raw water abstraction mains from river to reservoir are not digitised in our Geographic Information System ("GIS").

The process to estimate this length is the same as last year. In lieu of the digitised position, the raw water reservoirs were identified from the SAP asset register. For each one, the shortest straight-line length was measured using the "measure distance" functionality in the GIS tool to record the distance between the nearest river and the edge of the reservoir. The lengths were then summed to provide the reported figure.

#### Line 23: Average pumping head ("APH") – raw water abstraction

There have been no significant changes to the methodology this year.

|     | %   | Source   |
|-----|-----|--|
|     | 83% | measured data (flow and lift (suction and/or delivery head)  |
|     | 16% | partially measured data where either the flow or head is measured (principal estimation method is to revert to last year's head value) |
|     | 1%  | water treatment works flow data and static head estimates  |
| ~ ~ |     |  |

99% of sites contributing to APH have measured volumes and/or lift.

## Table 5B: Water resources operating cost analysis

This table shows our operating expenditure for water resources split by source categories

| Impounding<br>Reservoir | Pumped<br>Storage  | River<br>Abstractions  | Groundwater,<br>excluding MAR<br>water supply<br>schemes   |
|-------------------------|--|--|--|
| 0.940                   | 18.482   | 0.488  | 6.156  |
| -0.009                  | -0.177   | -0.005   | -0.059   |
| 0.000                   | 0.000  | 18.198   | 5.133  |
| 0.176                   | 3.463  | 0.092  | 1.154  |
| 0.000                   | 0.000  | 0.000  | 0.000  |
| 0.000                   | 0.000  | 0.000  | 0.000  |
| 0.677                   | 13.299   | 0.351  | 4.430  |
| 0.120                   | 2.352  | 0.062  | 0.783  |
| 1.904                   | 37.419   | 19.186   | 17.597   |
|                         | Reservoir         0.940         -0.009         0.000         0.176         0.000         0.000         0.000         0.000         0.000         0.176         0.000         0.176         0.000         0.120 | Reservoir         Storage           0.940         18.482           -0.009         -0.177           0.000         0.000           0.176         3.463           0.000         0.000           0.000         0.000           0.000         0.000           0.000         0.000           0.120         2.352 | ReservoirStorageAbstractions0.94018.4820.488-0.009-0.177-0.0050.0000.00018.1980.1763.4630.0920.0000.0000.0000.0000.0000.0000.67713.2990.3510.1202.3520.062 |

| Line description<br>Units: £m                      | Artificial<br>Recharge<br>water supply<br>schemes | Aquifer Storage<br>and Recovery<br>water supply<br>schemes | Other | Total  | RAG 4<br>Ref |
|--|---|--|-------|--------|--------------|
| Power  | 0.052   | 0.000  | 0.000 | 26.118 | 5B.1         |
| Income treated as negative expenditure             | -0.001  | 0.000  | 0.000 | -0.251 | 5B.2         |
| Abstraction charges/ discharge consents            | 0.000   | 0.000  | 0.000 | 23.331 | 5B.3         |
| Bulk supply  | 0.010   | 0.000  | 0.000 | 4.895  | 5B.4         |
| Renewals expensed in year (Infrastructure)         | 0.000   | 0.000  | 0.000 | 0.000  | 5B.5         |
| Renewals expensed in year (Non-<br>Infrastructure) | 0.000   | 0.000  | 0.000 | 0.000  | 5B.6         |
| Other operating expenditure excluding renewals     | 0.038   | 0.000  | 0.000 | 18.795 | 5B.7         |
| Local authority and Cumulo rates                   | 0.007   | 0.000  | 0.000 | 3.324  | 5B.8         |
| Total operating expenditure (excluding 3rd party)  | 0.106   | 0.000  | 0.000 | 76.212 | 5B.9         |

Section 6 Additional regulatory information - water network plus

## Table 6A: Raw water transport, raw water storage and water treatment data

This table reports raw water transport and storage data along with the breakdown of water treatment works ("WTWs") by treatment type and size. It also contains additional data associated with the water treatment business area.

| Line description  | Units | Input     | RAG 4<br>Ref |
|---|-------|-----------|--------------|
| Total number of balancing reservoirs  | nr    | 4         | 6A.1         |
| Total volumetric capacity of balancing reservoirs   | MI    | 437       | 6A.2         |
| Total number of raw water transport stations  | nr    | 11        | 6A.3         |
| Total installed power capacity of raw water transport pumping stations                          | kW    | 12,868    | 6A.4         |
| Total length of raw water transport mains and other conveyors                                   | km    | 262.42    | 6A.5         |
| Average pumping head ~ raw water transport  | m.hd  | 9.60      | 6A.6         |
| Energy consumption – raw water transport (MWh)  | MWh   | 5,326.394 | 6A.7         |
| Total number of raw water transport imports   | nr    | 0         | 6A.8         |
| Water imported from 3rd parties to raw water transport systems                                  | MI/d  | 0.00      | 6A.9         |
| Total number of raw water transport exports   | nr    | 2         | 6A.10        |
| Water exported to 3rd parties from raw water transport systems                                  | MI/d  | 106.46    | 6A.11        |
| Total length of raw and pre-treated (non-potable) water transport mains for supplying customers | km    | 0.00      | 6A.12        |

| Water treatment - treatment   | Surface water         |                     | Ground water          |                       | — RAG 4      |  |
|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|--------------|--|
| type analysis                 | Water<br>treated MI/d | Number of works nr. | Water<br>treated MI/d | Number of<br>works nr | RAG 4<br>Ref |  |
| All simple disinfection works | 0.00                  | 0                   | 0.00                  | 0                     | 6A.13        |  |
| W1 works                      | 0.00                  | 0                   | 0.00                  | 0                     | 6A.14        |  |
| W2 works                      | 0.00                  | 0                   | 204.37                | 35                    | 6A.15        |  |
| W3 works                      | 0.00                  | 0                   | 176.44                | 14                    | 6A.16        |  |
| W4 works                      | 18.00                 | 1                   | 182.17                | 27                    | 6A.17        |  |
| W5 works                      | 1921.21               | 10                  | 111.09                | 5                     | 6A.18        |  |
| W6 works                      | 0.00                  | 1                   | 0.00                  | 0                     | 6A.19        |  |

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|                     | % of total DI | Number<br>of works | RAG 4<br>Ref |
|---------------------|---------------|--------------------|--------------|
| WTWs in size band 1 | 0.5           | 11                 | 6A.20        |
| WTWs in size band 2 | 0.9           | 12                 | 6A.21        |
| WTWs in size band 3 | 2.9           | 16                 | 6A.22        |
| WTWs in size band 4 | 5.9           | 19                 | 6A.23        |
| WTWs in size band 5 | 8.0           | 11                 | 6A.24        |
| WTWs in size band 6 | 6.7           | 5                  | 6A.25        |
| WTWs in size band 7 | 10.9          | 4                  | 6A.26        |
| WTWs in size band 8 | 64.1          | 4                  | 6A.27        |

| Water treatment - other information  | Units | Input       | RAG 4<br>Ref |
|--|-------|-------------|--------------|
| Peak week production capacity  | MI/d  | 3403.90     | 6A.28        |
| Peak week production capacity having enhancement expenditure for grey solution improvements to address raw water quality deterioration   | MI/d  | 0.00        | 6A.29        |
| Peak week production capacity having enhancement expenditure for green solutions improvements to address raw water quality deterioration | MI/d  | 0.00        | 6A.30        |
| Total water treated at more than one type of works   | MI/d  | 0.00        | 6A.31        |
| Number of treatment works requiring remedial action because of raw water deterioration   | nr    | 0           | 6A.32        |
| Zonal population receiving water treated with orthophosphate   | 000's | 9,573.220   | 6A.33        |
| Average pumping head – water treatment   | m.hd  | 9.93        | 6A.34        |
| Energy consumption ~ water treatment   | MWh   | 255,859.620 | 6A.35        |
| Total number of water treatment imports  | nr    | 0           | 6A.36        |
| Water imported from 3rd parties' water treatment works   | MI/d  | 0.00        | 6A.37        |
| Total number of water treatment exports  | nr    | 2           | 6A.38        |
| Water exported to 3rd parties' water treatment works   | MI/d  | -4.08       | 6A.39        |
|  |       |             |              |

#### Additional commentary on raw water transport, raw water storage and water treatment data

#### Line 5: Total length of raw water transport mains and other conveyors

There have been no changes to the methodology this year. This represents the total of all raw water mains in our GIS since we do not differentiate between abstraction and transport mains.

#### Line 6: Average pumping head ~ raw water transport

There have been no significant changes to the methodology this year.

| %   | Source  |
|-----|---|
| 10% | measured data (flow and lift (suction and/or delivery head)   |
| 90% | partially measured data where either the flow or head is measured<br>but the head is estimated from a combination of static heads or the<br>previous year's values. |
|     |   |

#### Lines 13 to 27: WTW analysis

The total number of WTWs has decreased from AR22, from 97 to 93.

The 11 sites not used in the year but not decommissioned are categorised as follows:

| Туре  | 2022/23 | 2021/22 |
|-------|---------|---------|
| GW2   | 3       | 9       |
| GW3   | 1       | 0       |
| GW4   | 4       | 2       |
| SW5   | 1       | 1       |
| GW5   | 1       | 1       |
| SW6   | 1       | 0       |
| Total | 11      | 13      |

Line 32: Number of treatment works requiring remedial action because of raw water deterioration

There were no works with substantive remedial costs during this year.

#### Line 34: Average pumping head – water treatment

There have been no significant changes to the methodology this year.

| %   | Source   |
|-----|--|
| 25% | measured data (flow and lift (suction and/or delivery head)  |
| 75% | partially measured data where only one of the flow and head are<br>measured and the unmeasured item is estimated from the previous<br>year's values. |

In terms of sites contributing to APH, 100% have measured volumes and/or lift.

## Table 6B: Treated water distribution - assets and operations

This table reports the assets and operational data for the treated water distribution business area.

| Line description   | Units  | Input       | RAG 4<br>Ref |
|--|--------|-------------|--------------|
| Total installed power capacity of potable water pumping stations   | kW     | 124,400     | 6B.1         |
| Total volumetric capacity of service reservoirs  | MI     | 3,255.1     | 6B.2         |
| Total volumetric capacity of water towers  | MI     | 17.6        | 6B.3         |
| Water delivered (non-potable)  | MI/d   | 0.00        | 6B.4         |
| Water delivered (potable)  | MI/d   | 2,110.22    | 6B.5         |
| Water delivered (billed measured residential properties)   | MI/d   | 724.27      | 6B.6         |
| Water delivered (billed measured businesses)   | MI/d   | 415.67      | 6B.7         |
| Proportion of distribution input derived from impounding reservoirs  | 0 to 1 | 0.028       | 6B.8         |
| Proportion of distribution input derived from pumped storage reservoirs  | 0 to 1 | 0.682       | 6B.9         |
| Proportion of distribution input derived from river abstractions   | 0 to 1 | 0.020       | 6B.10        |
| Proportion of distribution input derived from groundwater works, excluding managed aquifer recharge (MAR) water supply schemes   | 0 to 1 | 0.254       | 6B.11        |
| Proportion of distribution input derived from artificial recharge (AR)<br>water supply schemes   | 0 to 1 | 0.015       | 6B.12        |
| Proportion of distribution input derived from aquifer storage and recovery (ASR) water supply schemes  | 0 to 1 | 0.000       | 6B.13        |
| Proportion of distribution input derived from saline abstractions  | 0 to 1 | 0.000       | 6B.14        |
| Proportion of distribution input derived from water reuse schemes  | 0 to 1 | 0.000       | 6B.15        |
| Total number of potable water pumping stations that pump into and within the treated water distribution system   | nr     | 308         | 6B.16        |
| Number of potable water pumping stations delivering treated groundwater into the treated water distribution system   | nr     | 65          | 6B.17        |
| Number of potable water pumping stations delivering surface water<br>into the treated water distribution system<br>Number of potable water pumping stations that re-pump water already | nr     | 12          | 6B.18        |
| within the treated water distribution system<br>Number of potable water pumping stations that pump water imported  | nr     | 231         | 6B.19        |
| from a 3rd party supply into the treated water distribution system   | nr     | 0           | 6B.20        |
| Total number of service reservoirs   | nr     | 241         | 6B.21        |
| Number of water towers   | nr     | 29          | 6B.22        |
| Energy consumption – treated water distribution (MWh)  | MWh    | 143,159.694 | 6B.23        |
| Average pumping head – treated water distribution  | m.hd   | 64.78       | 6B.24        |
| Total number of treated water distribution imports   | nr     | 14          | 6B.25        |
| Water imported from 3rd parties to treated water distribution systems  | MI/d   | 0.48        | 6B.26        |
| Total number of treated water distribution exports   | nr     | 6.00        | 6B.27        |
| Water exported to 3rd parties from treated water distribution systems  | MI/d   | -1.34       | 6B.28        |
| Peak 7 day rolling average distribution input  | MI/d   | 2,899.71    | 6B.29        |
| Peak 7 day rolling average distribution input / annual average<br>distribution input   | %      | 112.93%     | 6B.30        |
| Measured household consumption (excluding supply pipe leakage)   | MI/d   | 672.50      | 6B.31        |
|  |        |             |              |

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| Line description   | Units | Input   | RAG 4<br>Ref |
|--|-------|---------|--------------|
| Unmeasured household consumption (excluding supply pipe leakage)                     | MI/d  | 772.07  | 6B.32        |
| Measured non-household consumption (excluding supply pipe leakage)                   | MI/d  | 410.43  | 6B.33        |
| Unmeasured non-household consumption (excluding supply pipe leakage)                 | MI/d  | 13.34   | 6B.34        |
| Total annual leakage   | MI/d  | 619.65  | 6B.35        |
| Distribution system operational use  | MI/d  | 18.02   | 6B.36        |
| Water taken unbilled   | MI/d  | 77.66   | 6B.37        |
| Distribution input   | MI/d  | 2573.74 | 6B.38        |
| Distribution input (pre-MLE)   | MI/d  | 2567.73 | 6B.39        |
| Leakage upstream of DMA  | MI/d  | 35.87   | 6B.58        |
| Distribution mains losses  | MI/d  | 445.51  | 6B.59        |
| Customer supply pipe losses<br>– measured households excluding void properties       | MI/d  | 51.77   | 6B.60        |
| Customer supply pipe losses<br>– unmeasured households excluding void properties     | MI/d  | 105.39  | 6B.61        |
| Customer supply pipe losses<br>– measured non-households excluding void properties   | MI/d  | 5.24    | 6B.62        |
| Customer supply pipe losses<br>– unmeasured non-households excluding void properties | MI/d  | 1.82    | 6B.63        |
| Customer supply pipe losses – void measured households                               | MI/d  | 4.27    | 6B.64        |
| Customer supply pipe losses – void unmeasured households                             | MI/d  | 3.53    | 6B.65        |
| Customer supply pipe losses – void measured non-households                           | MI/d  | 1.65    | 6B.66        |
| Customer supply pipe losses – void unmeasured non-households                         | MI/d  | 0.47    | 6B.67        |
|  |       |         |              |

#### Additional commentary on treated water distribution

#### Lines 16 and 19: Number of potable water pumping stations

There has been no net change from the number of sites reported last year; Bickley WBS has been mothballed, offset by one new PS at Bitham Road.

#### Line 24: Average pumping head – treated water distribution

This year we have increased the number of sites for which both suction and delivery head data is used in the calculation. For these sites, the weighted average reduction compared to using delivery head only is 23.1% of flow head. We have applied this reduction to all sites in the distribution APH calculation this year.

| %   | Source   |
|-----|--|
| 69% | measured data (flow and lift (suction and/or delivery head)  |
| 29% | partially measured data where only one of the flow and head are<br>measured (usually flow) and the unmeasured item is estimated from<br>the previous year's values or static head data |
| 2%  | estimated from last year's data and static head data   |
|     |  |

In terms of sites contributing to APH, 98% have measured volumes and/or lift.

#### Line 29: Peak seven day rolling average distribution input

The peak seven day rolling average distribution input for AR23 was 2899.71 Ml/d and occurred on the week ending the 22 December 2022. The main reason for the increase in distribution input ("DI") during this period was the freeze thaw event, which led to rapidly dropping temperatures, consequently increasing leakage and as a result DI.

Variances from our business plan and water resource management plan proposals are detailed as part of table 6D.

#### Line 35: Total annual leakage

The narrative for this line can be seen under BW04 Leakage.

## Table 6C: Water network+ - Mains, communication pipes and other data

This table reports the mains analysis, mains age profile, number of communication pipes and additional data for the water network plus price control.

| Line description  | Units           | Input     | RAG 4<br>Ref |
|---|-----------------|-----------|--------------|
| Total length of potable mains as at 31 March  | km              | 31,926.7  | 6C.1         |
| Total length of potable mains relined   | km              | 0.1       | 6C.2         |
| Total length of potable mains renewed   | km              | 59.7      | 6C.3         |
| Total length of new potable mains   | km              | 62.2      | 6C.4         |
| Total length of potable water mains (≤320mm)  | km              | 28,873.3  | 6C.5         |
| Total length of potable water mains (>320mm and $\leq$ 450mm)                             | km              | 939.5     | 6C.6         |
| Total length of potable water mains (>450mm and ≤610mm)                                   | km              | 1,076.9   | 6C.7         |
| Total length of potable water mains (> 610mm)   | km              | 1,037.0   | 6C.8         |
| Total length of potable mains laid or structurally refurbished pre-1880                   | km              | 4,651.3   | 6C.9         |
| Total length of potable mains laid or structurally refurbished between 1881 and 1900      | km              | 3,100.6   | 6C.10        |
| Total length of potable mains laid or structurally refurbished between 1901 and 1920      | km              | 3,833.2   | 6C.11        |
| Total length of potable mains laid or structurally refurbished between 1921 and 1940      | km              | 5,196.8   | 6C.12        |
| Total length of potable mains laid or structurally refurbished between 1941 and 1960      | km              | 2,783.6   | 6C.13        |
| Total length of potable mains laid or structurally refurbished between 1961 and 1980      | km              | 4,369.8   | 6C.14        |
| Total length of potable mains laid or structurally refurbished between 1981 and 2000      | km              | 2,817.6   | 6C.15        |
| Total length of potable mains laid or structurally refurbished between 2001 and 2020      | km              | 4,856.0   | 6C.16        |
| Total length of potable mains laid or structurally refurbished post during and after 2021 | km              | 317.9     | 6C.17        |
| Number of lead communication pipes  | nr              | 1,134,003 | 6C.18        |
| Number of galvanised iron communication pipes   | nr              | 265,037   | 6C.19        |
| Number of other communication pipes   | nr              | 1,306,782 | 6C.20        |
| Number of lead communication pipes replaced for water quality                             | nr              | 13,388    | 6C.21        |
| Company area  | km <sup>2</sup> | 8,008     | 6C.22        |
| Compliance Risk Index   | nr              | 10.96     | 6C.23        |
| Event Risk Index  | nr              | 1,128     | 6C.24        |
| Properties below reference level at end of year   | nr              | 7.00      | 6C.25        |
| -   |                 |           |              |

### Table 6D: Demand management - Metering and leakage activities

This table reports the metering and leakage activities broken down by totex and explanatory variables.

| Line description   | Units | Basic<br>meter | AMR<br>meter | AMI meter | RAG 4<br>Ref |
|--|-------|----------------|--------------|-----------|--------------|
| Metering activities – Totex expenditure  |       |                |              |           |              |
| New optant meter installation for existing customers   | £m    | 0.000          | 3.150        | 7.080     | 6D.1         |
| New selective meter installation for existing customers  | £m    | 0.000          | 0.067        | 45.288    | 6D.2         |
| New business meter installation for existing customers   | £m    | 0.000          | 0.006        | 0.033     | 6D.3         |
| Residential meters renewed   | £m    | 0.000          | 0.809        | 4.759     | 6D.4         |
| Business meters renewed  | £m    | 0.104          | 0.469        | 4.542     | 6D.5         |
| Metering activities – Explanatory variables  |       |                |              |           |              |
| New optant meters installed for existing customers   | 000s  | 0.000          | 5.078        | 11.506    | 6D.6         |
| New selective meters installed for existing customers  | 000s  | 0.000          | 0.132        | 88.577    | 6D.7         |
| New business meters installed for existing customers   | 000s  | 0.000          | 0.012        | 0.070     | 6D.8         |
| Residential meters renewed   | 000s  | 0.003          | 5.885        | 34.316    | 6D.9         |
| Business meters renewed  | 000s  | 0.220          | 0.992        | 9.610     | 6D.10        |
| Replacement of basic meters with smart meters for household customers                                      | 000s  |                | 5.111        | 26.850    | 6D.11        |
| Replacement of AMR meter with AMI meters for household customers   | 000s  |                |              | 7.377     | 6D.12        |
| Replacement of basic meters with smart meters for business customers                                       | 000s  |                | 0.867        | 9.187     | 6D.13        |
| Replacement of AMR meter with AMI meters for business customers  | 000s  |                |              | 0.297     | 6D.14        |
| New residential meters installed for existing customers – supply-demand balance benefit                    | MI/d  | 0.00           | 0.01         | 8.46      | 6D.15        |
| New business meters installed for existing customers – supply-demand balance benefit                       | MI/d  | 0.00           | 0.00         | 0.00      | 6D.16        |
| Replacement of basic meter with smart meters<br>for household customers<br>– supply-demand balance benefit | MI/d  |                | 0.000        | 0.00      | 6D.17        |
| Replacement of AMR meter with AMI meter for<br>household customers<br>– supply-demand balance benefit      | MI/d  |                |              | 0.00      | 6D.18        |
| Replacement of basic meter with smart meters<br>for business customers<br>– supply-demand balance benefit  | MI/d  |                | 0.000        | 0.00      | 6D.19        |
| Replacement of AMR meter with AMI meter for<br>business customers<br>– supply-demand balance benefit       | MI/d  |                |              | 0.00      | 6D.20        |
| Residential properties - meter penetration   | %     | 32.5           | 5.5          | 16.4      | 6D.21        |

| Leakage activities                                  | Units | Maintaining<br>leakage | Reducing<br>leakage | Total   | RAG 4<br>Ref |
|---|-------|------------------------|---------------------|---------|--------------|
| Total leakage activity                              | £m    | 275.733                | 85.195              | 360.928 | 6D.22        |
| Leakage improvements delivering benefits in 2020-25 | MI/d  |                        |                     | -25.82  | 6D.23        |

| Per capita consumption (excluding supply pipe leakage) | Units |        | RAG4<br>Ref |
|--|-------|--------|-------------|
| Per capita consumption (measured)                      | l/h/d | 116.05 | 6D.24       |
| Per capita consumption (unmeasured)                    | l/h/d | 172.29 | 6D.25       |

#### Additional commentary on metering activities

#### Lines 6-10: Metering installation programme

Our strategy is to only install smart meters in our optant, selective and replacement programmes. These meters can be read in Automatic Meter Reading ("AMR") or Advanced Meter Infrastructure ("AMI") modes when Local Communications Equipment ("LCE") is installed, in areas of fixed network coverage. All meters installed are classified as 'smart' based on the definition outlined by Ofwat. However, there will be instances when a customer may request a 'basic' meter, either through the non-household retail market (meter to be logged) or for our household customers on religious grounds.

Within our London WRZ, which is covered by our wide area radio network, we deploy meters that can work in AMR mode and be read by driving or walking by the meters. When combined with a LCE, these meters can alternatively operate in AMI mode; this is our preferred deployment mode as it allows meter reads to be collected remotely through our wide area network.

The smart meters allow us to receive a daily profile of either 15 minute or hourly read data. This rich source of data allows us to better understand water usage in our supply area and identify leakage and wastage, enabling us to work with customers to help reduce demand and leakage.

In 2022/23, we installed 156,401 meters, which is a decrease of 11% from the previous year. Our performance at the beginning of the year was impacted by supply issues due to the global microchip shortage. However, by working closely with our partners we have been able to partially recover our position.

Compared to our business plan, we have exceeded the 2022/23 forecasts by 5.5% and we have exceeded our cumulative position for the AMP by 4.8%.

|                               |         | Business | ss Plan Forecast Actual |         |         |         |         |         |
|-------------------------------|---------|----------|-------------------------|---------|---------|---------|---------|---------|
|                               | 2020/21 | 2021/22  | 2022/23                 | Total   | 2020/21 | 2021/22 | 2022/23 | Total   |
| Residential meters renewed    | 33,895  | 33,895   | 28,256                  | 96,046  | 25,850  | 49,285  | 40,204  | 115,339 |
| Business meters renewed       | 11,000  | 11,000   | 11,000                  | 33,000  | 11,360  | 10,639  | 10,822  | 32,821  |
| Optant installs               | 17,289  | 17,289   | 16,156                  | 50,734  | 12,353  | 21,006  | 16,584  | 49,943  |
| Selective meters installed    | 64,743  | 88,971   | 92,773                  | 246,487 | 44,137  | 94,454  | 88,709  | 221,300 |
| New business meters installed | -       | 0        | 0                       | 0       | 24      | 90      | 82      | 196     |
| Total                         | 116,804 | 141,032  | 148,185                 | 406,021 | 93,724  | 175,474 | 156,401 | 425,599 |

Our WRMP forecast aligns to the business plan shown below:

For the residential replacement programme, we are ahead of the WRMP target for the cumulative AMP position as we have prioritised recovery of this workstream post-COVID and in light of the microchip shortages. We are slightly behind for the other programmes but have developed better supply strategies over the past three years and aim to recover this shortfall by the end of 2023/24.

The higher leakage levels this year are despite having significantly increased output of detection and repair of leaks. Against levels in 2021/22, visible leak repairs completed in 2022/23 were up 36%, with visible mains leak repairs increasing by 90%, almost double. Similarly, the value of hidden leakage detected and repaired was up 27%, with 43% more mains leaks detected and repaired, compared with that completed in 2021/22.

Further leakage commentary can be found in section BW04 Leakage.

## Table 6F: WRMP annual reporting on delivery – non-leakage activities

We've chosen to publish the regulatory table 6F as a separate document to this Annual Performance Report due to the size of the table. This has been prepared in line with regulatory guidelines and follows the principles set out in this Annual Performance Report.

You can view this table on our website.

#### Additional commentary on supply-side improvements

Supply-demand in the London WRZ remains in surplus. When the raw water purchase agreement with RWE Npower at Didcot was delivered in 2020/21, the deployable output ("DO") benefit to the London WRZ increased by 24 MI/d. This DO benefit meant London WRZ exceeded the planned WRMP19 benefit of 18 MI/d by 6 MI/d.

With the supply-demand in the London WRZ remaining in surplus, the delivery of the New River Head (removal of constraints) scheme – originally due for completion in 2020/21 – continues to be deferred. Similarly, the delivery of the Horton Kirby aquifer storage and recovery ("ASR") and Southfleet/Greenhithe groundwater schemes are deferred beyond the end of AMP7.

Definition of the development work scope is underway for East London (Addington) ASR although its current delivery date is in early AMP9 (2031/32).

The Deephams Indirect Potable Reuse scheme has been included in the benefits to be reported but is now not supported by the EA and will not be delivered owing to their rejection of the scheme.

Other Strategic Resource Options ("SRO") are under consideration as a replacement of this scheme as part of the WRSE WRMP24 process. We have not included any SROs in Table 6F as they are at conceptual design stage.

No supply-side improvements schemes were planned in Guildford WRZ AMP to date, consistent with our WRMP19 programme.

No schemes are planned for AMP7 in any other zones.

#### Additional commentary on internal interconnector improvements

We have one project in AMP7 which is delivering a new 9km trunk main between Pewley Reservoir and Netley Mill WTW, improving Netley Mill's resilience.

#### Additional commentary on demand-side improvements

The cumulative MI/d demand reduction achieved AMP to date is slightly ahead of forecast, with some demand reduction variation seen across all individual activities. The Water Efficiency programme will continue to evolve, using smart meter data and regular monitoring of each activity, with a focus on the total AMP7 demand reduction objective.

#### Line 9: Smarter Home Visits ("SHVs")

Our SHV activity was reduced during 2022/23 due to re-profiling of demand reduction programmes in line with smart meter rollout activities and the increasing focus on targeted digital engagement. Despite this, the MI/d demand reductions achieved through SHVs were only slightly below forecast.

Our total AMP7 cumulative MI/d demand reductions are below the original AMP7 forecast, due to long-standing impacts of COVID restrictions for on-ground delivery capability, plus a shift to increase targeted digital engagement with customers and drive self-fix activity.

We use smart meter data to assist with targeting high usage households and maximising the demand reductions achieved per SHV, plus continuous flow data to initiate targeted engagement for both wastage self-fixes and CSL action. This insight has been shared with the Government, regulators and other water companies to help inform PR24 programme development.

#### Additional commentary on table 6F

#### Line 10: Smarter Business Visits ("SBVs") including wastage fixes

Our SBV activity continues to be very effective for demand reduction.

The MI/d demand reduction benefits delivered in 22/23 exceeded the annual forecast through partnership working with the Department for Education enabling increased school visits, which provide enhanced water saving opportunities and help public sector organisations secure financial savings benefits.

During and since the 2023 drought, we have used smart meter data to help target continuous flows on business properties and increase joint working with business retailers. Our insight on business water usage and loss was shared with Defra to aid the development of new national water targets for business demand, plus shared with Ofwat and the Retailer-Wholesaler Group to aid the development of PR24 performance commitment approaches. Our water savings evidence from SBVs also assisted in the Market Operator Services Limited's ("MOSL's") development of their Interim Metering Strategy.

Our SBVs were also being used in specific WRZs in response to the 2023 heatwave and drought.

#### Line 11: Wastage fixes - households

Our wastage fixes are continuing to deliver consistent and useful water savings per visit, but the cumulative demand reduction process is behind the original WRMP19 projection due to the long-standing impacts of COVID restrictions, which resulted in months of no delivery. The insight from our wastage fix initiative was supplied to Defra and Ofwat to inform National Water Target and PR24 demand reduction approaches.

Our wastage evidence continues to be shared with regulators, industry and trade bodies, the manufacturing industry and product certification bodies to help inform activities aiming to address the UK's 'leaky loo' issue.

#### Line 12: Greenredeem / household incentive scheme

Our ability to expand our Greenredeem water efficiency incentive, in line with WRMP19 projections, was impacted by reduced SHV activity along with a restricted ability to engage digitally with customers to promote water efficiency incentives due to the updated Privacy and Electronic Communications Regulation ("PCR") ruling on data protection laws, requiring greater levels of customer consent. The demand reduction volumes per customer registered with Greenredeem continue to be very favourable.

We have expanded the partnership with Greenredeem to include sewer abuse/ blockage education and customer engagement. We will continue our use of incentives to enable greater demand reduction benefits to smart meters customers.

#### Line 13: Non-potable water

We have not delivered any non-potable water reduction in AMP7. Our efforts have focused on working with Defra and the Future Homes Hub to inform the development and consultation of Building Regulations changes.

We have also introduced the water sector's first Environmental Incentive for Developers with financial rewards for the take-up of water reuse technology, such as rainwater harvesting and greywater recycling. This aims to accelerate the adoption of non-potable technologies within new housing developments and work towards a 'water neutral' outcome. We are also working with a large golf course to scope and implement an innovative use of final wastewater effluent within irrigation practices.

#### Line 14: Housing Associations

We migrated all separate housing association home visits into our larger SHV programme in 21/22. From 22/23 onwards, all water efficiency visits conducted in housing association properties will fall into the SHV delivery and reporting space.

#### Line 15: Innovation savings

We have continued with our Water Efficiency Incentive for Business Retailers. Insight from this offering is shared with Ofwat, MOSL and retailers to inform future retail market regulation and engagement bilateral arrangements.

We continue to work proactively with external suppliers of new technology and customer engagement opportunities. These can lead to small pilots and trials to inform future water efficiency programmes. In parallel to sharing these results with other water companies through the Water Efficiency Network, we will use these trials to expand our innovation activity into later AMPs.

#### Line 16: Financial tariffs

As per WRMP19, financial tariffs have been included after 2024/25. They are planned for introduction once our metering programme is complete. Therefore, there are no financial tariffs in AMP7.

#### Line 17: Green Economic Recovery

See Section 10A for further information.

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Section 7 Additional regulatory information – wastewater network plus

## Table 7A: Wastewater network+ - Functional expenditure

This table shows functional expenditure for our sewage treatment works split by site size.

| Line description   | £'000       | RAG 4<br>Ref |
|--|-------------|--------------|
| Direct costs of STWs in size band 1  | 1,651.869   | 7A.1         |
| Direct costs of STWs in size band 2  | 1,406.928   | 7A.2         |
| Direct costs of STWs in size band 3  | 4,242.100   | 7A.3         |
| Direct costs of STWs in size band 4  | 9,270.914   | 7A.4         |
| Direct costs of STWs in size band 5  | 9,038.282   | 7A.5         |
| General & support costs of STWs in size bands 1 to 5                               | 4,123.537   | 7A.6         |
| Functional expenditure of STWs in size bands 1 to 5 (excluding 3rd party services) | 29,733.630  | 7A.7         |
| Service charges for STWs in size band 6  | 3,680.592   | 7A.8         |
| Estimated terminal pumping costs size band 6 works                                 | 1,450.484   | 7A.9         |
| Other direct costs of STWs in size band 6  | 154,885.574 | 7A.10        |
| Direct costs of STWs in size band 6  | 160,016.650 | 7A.11        |
| General & support costs of STWs in size band 6                                     | 26,884.719  | 7A.12        |
| Functional expenditure of STWs in size band 6 (excluding 3rd party services)       | 186,901.369 | 7A.13        |
| Total operating functional expenditure<br>(excluding 3rd party services)           | 216,634.999 | 7A.14        |

### Table 7B: Wastewater network+ - Large sewage treatment works

We've chosen to publish the regulatory table 7B as a separate document to this Annual Performance Report due to the size of the table. This has been prepared in line with regulatory guidelines and follows the principles set out in this Annual Performance Report.

You can view this table on our website.

## Table 7C: Wastewater network+ - Sewer and volume data

This table reports the sewer and volume data for the wastewater network plus price control.

| Line description  | Units | Input        | RAG 4<br>Ref |
|---|-------|--------------|--------------|
| Connectable properties served by s101A schemes completed in the report year | nr    | 0            | 7C.1         |
| Number of s101A schemes delivered in the report year                        | nr    | 0            | 7C.2         |
| Total pumping station capacity  | kW    | 138,499      | 7C.3         |
| Number of network pumping stations  | nr    | 5,135        | 7C.4         |
| Total number of sewer blockages   | nr    | 73,780       | 7C.5         |
| Total number of gravity sewer collapses                                     | nr    | 282          | 7C.6         |
| Total number of sewer rising main bursts                                    | nr    | 106          | 7C.7         |
| Number of combined sewer overflows  | nr    | 325          | 7C.8         |
| Number of emergency overflows   | nr    | 20           | 7C.9         |
| Number of settled storm overflows   | nr    | 250          | 7C.10        |
| Sewer age profile (constructed post 2001)                                   | km    | 10,530       | 7C.11        |
| Volume of trade effluent  | MI/yr | 20,728.84    | 7C.12        |
| Volume of wastewater receiving treatment at sewage treatment works          | Ml/yr | 1,559,511.39 | 7C.13        |
| Length of gravity sewers rehabilitated                                      | km    | 40           | 7C.14        |
| Length of rising mains replaced or structurally refurbished                 | km    | 1            | 7C.15        |
| Length of foul (only) public sewers   | km    | 38,250       | 7C.16        |
| Length of surface water (only) public sewers                                | km    | 22,812       | 7C.17        |
| Length of combined public sewers  | km    | 5,816        | 7C.18        |
| Length of rising mains  | km    | 2,042        | 7C.19        |
| Length of other wastewater network pipework                                 | km    | 366          | 7C.20        |
| Total length of "legacy" public sewers as at 31 March                       | km    | 69,286       | 7C.21        |
|   |       |              |              |

#### Additional commentary on sewer and volume data

#### Line 14: Length of gravity sewers rehabilitated

The length of gravity sewer rehabilitation completed in 2022-23 (40,178m) has increased by 9% from 2021-22 (36,756m). The number of reactive dig downs and relining jobs completed has decreased by 3% (2,240 to 1,943), so the increase is predominantly due to more proactive rehabilitation completed in 2022-23.

#### Line 15: Length of rising mains replaced or structurally refurbished

The length of rising main repair completed in 2022-23 (923m) has decreased by 62% from 2021-22 (2,449m). This is primarily because only one planned rising main project was delivered in the year (650m), and the remaining activities were shorter length, reactive repairs.

Our interpretation of "structurally refurbished" is that it is intended to capture any pipeline rehabilitation technique which results in an improvement in the structural integrity of the pipe such that its expected service life has been materially extended.

## Table 7D: Wastewater network+ - Sewage treatment works data

This table reports the sewage treatment works load and numbers categorised by size bands and the population equivalent data.

|  |                          |         |                     |            | Treatment | t categories |        |        |           |
|--|--------------------------|---------|---------------------|------------|-----------|--------------|--------|--------|-----------|
| Line description   | Units                    |         | Seco                | ndary      |           | Terti        | ary    |        |           |
|  | Offito                   | Primary | Activated<br>Sludge | Biological | A1        | A2           | B1     | B2     | Total     |
| Load received by STWs in size band 1                           | kg BOD₅/day              | 5       | 55                  | 245        | 33        | 0            | 163    | 14     | 515       |
| Load received by STWs in size band 2                           | kg BOD₅/day              | 0       | 86                  | 449        | 20        | 0            | 470    | 158    | 1,183     |
| Load received by STWs in size band 3                           | kg BOD <sub>5</sub> /day | 0       | 296                 | 1,491      | 486       | 0            | 2,424  | 585    | 5,283     |
| Load received by STWs in size band 4                           | kg BOD <sub>5</sub> /day | 0       | 3,115               | 3,290      | 1,023     | 1,527        | 7,604  | 6,346  | 22,905    |
| Load received by STWs in size band 5                           | kg BOD₅/day              | 0       | 1,700               | 0          | 0         | 9,575        | 2,244  | 13,154 | 26,673    |
| Load received by STWs above size band 5                        | kg BOD <sub>5</sub> /day | 0       | 561,480             | 0          | 0         | 342,622      | 3,916  | 39,626 | 947,644   |
| Total load received  | kg BOD <sub>5</sub> /day | 5       | 566,733             | 5,475      | 1,562     | 353,724      | 16,820 | 59,883 | 1,004,202 |
| Load received from trade effluent customers at treatment works | kg BOD <sub>5</sub> /day |         |                     |            |           |              |        |        | 26,941    |
| STWs in size band 1  | nr                       | 2       | 10                  | 40         | 5         | 0            | 18     | 1      | 76        |
| STWs in size band 2  | nr                       | 0       | 4                   | 18         | 1         | 0            | 18     | 6      | 47        |
| STWs in size band 3  | nr                       | 0       | 5                   | 24         | 5         | 0            | 36     | 8      | 78        |
| STWs in size band 4  | nr                       | 0       | 10                  | 11         | 3         | 3            | 27     | 19     | 73        |
| STWs in size band 5  | nr                       | 0       | 2                   | 0          | 0         | 8            | 3      | 13     | 26        |
| STWs above size band 5   | nr                       | 0       | 5                   | 0          | 0         | 35           | 2      | 12     | 54        |
| Total number of works  | nr                       | 2       | 36                  | 93         | 14        | 46           | 104    | 59     | 354       |

|   |                |           |                    |           |              | Treatme   | ent works co | onsents           |                    |         |              |           |
|---|----------------|-----------|--------------------|-----------|--------------|-----------|--------------|-------------------|--------------------|---------|--------------|-----------|
| Line description  | Units          |           |                    | Phosphoru | S            |           |              |                   | BOE                | $D_5$   |              |           |
|   | Units          | <=0.5mg/l | >0.5 to<br><=1mg/l | >1mg/l    | No<br>permit | Total     | <=7mg/l      | >7 to<br><=10mg/l | >10 to<br><=20mg/l | >20mg/l | No<br>permit | Total     |
| Load received by STWs in size band 1                              | kg<br>BOD₅/day | 0         | 14                 | 0         | 500          | 514       | 0            | 5                 | 71                 | 396     | 42           | 514       |
| Load received by STWs in size band 2                              | kg<br>BOD₅/day | 100       | 46                 | 19        | 1,018        | 1,183     | 0            | 15                | 417                | 728     | 23           | 1,183     |
| Load received by STWs in size band 3                              | kg<br>BOD₅/day | 336       | 687                | 35        | 4,225        | 5,283     | 0            | 996               | 1,544              | 2,743   | 0            | 5,283     |
| Load received by STWs in size band 4                              | kg<br>BOD₅/day | 985       | 1,590              | 1,608     | 19,495       | 23,678    | 1,538        | 4,613             | 14,477             | 3,050   | 0            | 23,678    |
| Load received by STWs in size band 5                              | kg<br>BOD₅/day | 0         | 1,160              | 23,348    | 2,165        | 26,673    | 3,315        | 9,625             | 12,573             | 1,160   | 0            | 26,673    |
| Load received by STWs above size band 5                           | kg<br>BOD₅/day | 18,311    | 278,490            | 81,397    | 568,672      | 946,871   | 138,113      | 131,688           | 614,503            | 62,566  | 0            | 946,871   |
| Total load received   | kg<br>BOD₅/day | 19,732    | 281,987            | 106,408   | 596,075      | 1,004,201 | 142,965      | 146,942           | 643,585            | 70,644  | 65           | 1,004,201 |
| Load received from trade effluent<br>customers at treatment works | kg<br>BOD₅/day |           |                    |           |              |           |              |                   |                    |         |              |           |
| STWs in size band 1   | Nr             | 0         | 1                  | 0         | 74           | 75        | 0            | 1                 | 11                 | 54      | 9            | 75        |
| STWs in size band 2   | Nr             | 4         | 2                  | 1         | 40           | 47        | 0            | 1                 | 12                 | 33      | 1            | 47        |
| STWs in size band 3   | Nr             | 4         | 10                 | 1         | 63           | 78        | 0            | 12                | 23                 | 43      | 0            | 78        |
| STWs in size band 4   | Nr             | 3         | 5                  | 3         | 63           | 74        | 4            | 12                | 44                 | 14      | 0            | 74        |
| STWs in size band 5   | Nr             | 0         | 1                  | 22        | 3            | 26        | 3            | 10                | 12                 | 1       | 0            | 26        |
| STWs above size band 5  | Nr             | 3         | 18                 | 27        | 7            | 55        | 8            | 25                | 18                 | 4       | 0            | 55        |
| Total number of works   | Nr             | 14        | 37                 | 54        | 250          | 355       | 15           | 61                | 120                | 149     | 10           | 355       |

|  |             |         |                  | Treatment         | works cons | sents     |           |              |
|--|-------------|---------|------------------|-------------------|------------|-----------|-----------|--------------|
| Line description   | Units       |         |                  | Ar                | nmonia     |           |           |              |
|  | Onito       | <=1mg/l | >1 to<br><=3mg/l | >3 to<br><=10mg/l | >10mg/l    | No permit | Total     | RAG 4<br>Ref |
| Load received by STWs in size band 1                           | kg BOD₅/day | 0       | 0                | 68                | 92         | 354       | 514       | 7D.1         |
| Load received by STWs in size band 2                           | kg BOD₅/day | 0       | 15               | 512               | 155        | 502       | 1,183     | 7D.2         |
| Load received by STWs in size band 3                           | kg BOD₅/day | 0       | 525              | 2,332             | 930        | 1,495     | 5,283     | 7D.3         |
| Load received by STWs in size band 4                           | kg BOD₅/day | 0       | 10,718           | 10,190            | 1,922      | 847       | 23,678    | 7D.4         |
| Load received by STWs in size band 5                           | kg BOD₅/day | 0       | 13,327           | 13,346            | 0          | 0         | 26,673    | 7D.5         |
| Load received by STWs above size band 5                        | kg BOD₅/day | 138,904 | 708,505          | 92,187            | 7,274      | 0         | 946,871   | 7D.6         |
| Total load received  | kg BOD₅/day | 138,904 | 733,091          | 118,636           | 10,372     | 3,199     | 1,004,201 | 7D.7         |
| Load received from trade effluent customers at treatment works | kg BOD₅/day |         |                  |                   |            |           |           | 7D.8         |
| STWs in size band 1  | nr          | 0       | 0                | 9                 | 11         | 55        | 75        | 7D.9         |
| STWs in size band 2  | nr          | 0       | 1                | 16                | 7          | 23        | 47        | 7D.10        |
| STWs in size band 3  | nr          | 0       | 7                | 32                | 15         | 24        | 78        | 7D.11        |
| STWs in size band 4  | nr          | 0       | 31               | 34                | 4          | 5         | 74        | 7D.12        |
| STWs in size band 5  | nr          | 0       | 14               | 12                | 0          | 0         | 26        | 7D.13        |
| STWs above size band 5   | nr          | 7       | 32               | 15                | 1          | 0         | 55        | 7D.14        |
| Total number of works  | nr          | 7       | 85               | 118               | 38         | 107       | 355       | 7D.15        |

| Population equivalent  | Units | Primary    | RAG 4<br>Ref |
|--|-------|------------|--------------|
| Current population equivalent served by STWs   | 000s  | 15,315.688 | 7D.16        |
| Current population equivalent served by STWs with tightened/new P consents   | 000s  | 0.000      | 7D.17        |
| Current population equivalent served by STWs with tightened/new N consents   | 000s  | 0.000      | 7D.18        |
| Current population equivalent served by STWs with tightened/new sanitary parameter consents                                    | 000s  | 1.550      | 7D.19        |
| Current population equivalent served by STWs with tightened/new microbiological treatment consents (for example UV, ozone etc) | 000s  | 0.000      | 7D.20        |
| Population equivalent treatment capacity enhancement   | 000s  | 0.000      | 7D.21        |
| Current population equivalent served by STWs with tightened/new consents for chemicals or other hazardous substances.          | 000s  | 661.186    | 7D.22        |

Additional commentary on sewage treatment works data

Line 21: Population equivalent treatment capacity enhancement

This line was not expected to be zero, but multiple schemes were delayed in delivery and will now be realised in AR24.

## Table 7E: Wastewater network+ - Energy consumption and other data

This table reports the energy consumption and additional data for the wastewater network plus price control.

| Line description  | Units           | Input                                 | RAG 4<br>Ref |
|---|-----------------|---------------------------------------|--------------|
| Total sewerage catchment area   | km <sup>2</sup> | 2,668                                 | 7E.1         |
| Designated bathing waters (inland and coastal)  | Nr              | 7                                     | 7E.2         |
| Number of intermittent discharge event duration monitoring  | Nr              | 60                                    | 7E.3         |
| Number of monitors for flow monitoring at STWs  | Nr              | 15                                    | 7E.4         |
| Number of odour related complaints  | Nr              | 541                                   | 7E.5         |
| ·   | MWh             | 106,411.989                           | 7E.6         |
| Energy consumption - sewage collection  |                 | · · · · · · · · · · · · · · · · · · · |              |
| Energy consumption - sewage treatment   | MWh             | 652,539.194                           | 7E.7         |
| Energy consumption - wastewater network +   | MWh             | 758,951.183                           | 7E.8         |
| Cumulative shortfall in FFT addressed by WINEP / NEP schemes to<br>increase STW capacity                                | l/s             | 121.000                               | 7E.9         |
| Number of sites with an increase in sewage treatment works capacity delivered to address a shortfall in FFT             | Nr              | 1                                     | 7E.10        |
| Additional storm tank capacity provided at sewage treatment works (grey infrastructure)                                 | m3              | 816.400                               | 7E.11        |
| Additional effective storm storage capacity at sewage treatment works (green infrastructure)                            | m3              | 0.000                                 | 7E.12        |
| Additional volume of network storage at CSOs etc to reduce spill frequency (grey infrastructure)                        | m3              | 0.000                                 | 7E.13        |
| Additional effective storage in the network delivered through green   | m3              | 0.000                                 | 7E.14        |
|   | 1115            | 0.000                                 | 16.14        |
| Total number of sewage treatment works sites where additional storage has been delivered (grey infrastructure)          | Nr              | 4                                     | 7E.15        |
| Number of sewage treatment works sites where additional storage has been delivered with pumping (grey infrastructure)   | Nr              | 4                                     | 7E.16        |
| Number of sewage treatment works benefitting from green   | Nr              | 0                                     | 7E.17        |
| infrastructure replacing the need for storm tank storage<br>Number of sites delivering additional network storage (grey | Nr              | 0                                     | 7E.18        |
| infrastructure)<br>Number of sites delivering additional network storage including pumping                              | Nr              | 0                                     | 7E.19        |
| (grey infrastructure)<br>Number of sites delivering additional network storage through green                            | Nr              | 0                                     | 7E.20        |
| infrastructure<br>Surface water separation drainage area removed  | m2              | 5,600                                 | 7E.21        |
| Number of schemes delivered to meet tightened or new sanitary   |                 |                                       |              |
| consents  | Nr              | 1.000                                 | 7E.22        |
| Number of installations requiring civils for flow monitoring at sewage treatment works                                  | Nr              | 16                                    | 7E.23        |
| Number of installations requiring civils for event duration monitoring at intermittent discharges                       | Nr              | 6.000                                 | 7E.24        |
| Number of storm overflows where improvements have been made to reduce harm or reduce spill frequencies                  | Nr              | 10                                    | 7E.25        |
|   |                 |                                       |              |

## Table 7F: Wastewater network+ - WINEP phosphorus removal scheme costs and cost drivers

We've chosen to publish the regulatory table 7F as a separate document to this Annual Performance Report due to the size of the table. This has been prepared in line with regulatory guidelines and follows the principles set out in this Annual Performance Report.

You can view this table on our website.

The future numbers are based on the latest approved forecast. However we are currently reassessing our forecast and will publish alongside our early submission of PR24 data tables.

#### Additional commentary on table 7F

#### Capex

Our capex data is predominantly sourced from the March 2023 monthly project expenditure report issued by our Finance team. To achieve consistency to the PR19 submission, we have used the closely governed purpose codes for each project (STTSOBGC, STTSQBGC and STTSQPGC indicate phosphorous removal).

Exceptions from this process are made for four projects containing multiple sites; additional granularity is then sought from the financial modelling provided by Capital Delivery (our mechanism for delivering large complex capital work).

Future projects originate from the PR19 business plan and have the same purpose codes. New lines that have been added are allocated a purpose code(s) based on the type of work and benefits expected to be delivered.

Actual spend in the reporting year is compared with 4M.35 and historically reported spend in cost assessment submissions to ensure consistency of mapping within table lines and across accounting separations for all projects.

The data used to populate table 7F also contains a small number of high-level adjustment lines which cannot be specific to individual projects, such as for uncommitted funding which is allocated to the phosphorus removal programme but not yet a specific site. This is spread prorata across all sites in the model on a cost ratio basis within each reporting year.

Completion dates have been reviewed and updated from AR22 where necessary by our project and investment teams.

#### Opex

For AMP6 schemes, our OIS tool has been used based on the design PE for each site and budgets as at November 2019. This tool combines power data from the Energy and Carbon Team, chemicals budget data and our actual historical unit rates for power and chemicals.

For AMP7 schemes, we have used the PR19 calculation by phosphorus permit limit banding (0.1-0.5mg/l and >0.5mg/l) and PE banding (<10,000 and >10,000). This may result in a higher than expected opex, especially for our smallest sites, but provides a standardised framework.

Across all opex estimation, we have assumed that it is prudent to use the 2022-23 unit rates for future years. For all projects expected to be completed by AR25, the opex has been pro-rated based on the number of months of full scheme use following completion according to the project design details. For projects completing in AMP8 or beyond, we have provided the full year opex according to the RAG requirements.

#### Cost Drivers

The scheme design PE figures are as stated in the project briefs, modelled according to our standard growth insights and modelling techniques.

Historical permit levels are taken from our discharge permit database. Enhanced permit levels are as stated in our AMP6 or AMP7 WINEP tracker, according to the completion date of the scheme.

For sites where we have confirmed that the scheme is only a permit change, a design review by the Capital Delivery team has confirmed that there are no structural works included. Similarly, catchment-based solutions would have been identified through the project briefs for future schemes and design reports for those completed in AMP6, but we do not currently have any relating to phosphorus removal.

We only have one transfer pipeline scheme in scope – Rusper STW – which was completed in AMP6, so this is the only scheme showing details for the transfer pipeline and transferred flow cost drivers.

We have not identified any additional company-specific cost drivers.

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# Section 8 Additional regulatory information – bioresources

## Table 8A: Bioresources sludge data

This table reports the Bioresources sludge data for the company.

| Line description   | Units                 | Total      | RAG 4<br>Ref |
|--|-----------------------|------------|--------------|
| Total sewage sludge produced, treated by incumbents  | ttds/ year            | 353.9      | 8A.1         |
| Total sewage sludge produced, treated by 3 <sup>rd</sup> party sludge service provider       | ttds/ year            | 0.0        | 8A.2         |
| Total sewage sludge produced   | ttds/ year            | 353.9      | 8A.3         |
| Total sewage sludge produced from non-appointed liquid waste treatment                       | ttds/ year            | 2.5        | 8A.4         |
| Percentage of sludge produced and treated at a site of STW and STC co-location               | %                     | 86.49      | 8A.5         |
| Total sewage sludge disposed by incumbents   | ttds/ year            | 221.6      | 8A.6         |
| Total sewage sludge disposed by 3 <sup>rd</sup> party sludge service provider                | ttds/ year            | 0.0        | 8A.7         |
| Total sewage sludge disposed   | ttds/ year            | 221.6      | 8A.8         |
| Total measure of intersiting 'work' done by pipeline   | ttds*km/year          | 113        | 8A.9         |
| Total measure of intersiting 'work' done by tanker   | ttds*km/year          | 869        | 8A.10        |
| Total measure of intersiting 'work' done by truck  | ttds*km/year          | 804        | 8A.11        |
| Total measure of intersiting 'work' done<br>(all forms of transportation)                    | ttds*km/year          | 1,786      | 8A.12        |
| Total measure of intersiting 'work' done by tanker (by volume transported)                   | m <sup>3*</sup> km/yr | 24,562,807 | 8A.13        |
| Total measure of 'work' done in sludge disposal operations by pipeline                       | ttds*km/year          | 0          | 8A.14        |
| Total measure of 'work' done in sludge disposal operations by tanker                         | ttds*km/year          | 0          | 8A.15        |
| Total measure of 'work' done in sludge disposal operations by truck                          | ttds*km/year          | 14,003     | 8A.16        |
| Total measure of 'work' done in sludge disposal operations (all forms of transportation)     | ttds*km/year          | 14,003     | 8A.17        |
| Total measure of 'work' done by tanker in sludge disposal operations (by volume transported) | m <sup>3*</sup> km/yr | 0          | 8A.18        |
| Chemical P sludge as % of sludge produced at STWs  | %                     | 41.59      | 8A.19        |

#### Additional commentary on bioresources sludge data

#### Line 4: Total sewage sludge produced from non-appointed liquid waste treatment

All cess waste imported into our sewage treatment facilities discharges via cess loggers, which record the volume and solids content of the cess. The majority of incoming cess is too dilute to record a solids content, so these volumes did not contribute to our calculation. As such, only imports that recorded solids above the recording limit of the meters were used. Therefore, the mass of solids due to non-appointed waste was negligible compared to the overall tonnage of sludge produced through the appointed business.

#### Lines 10, 11, 13, 15, 16 and 18: tanker and truck movements

Internal tankering services were used for intersite movement of liquid sludge, supported by ten framework suppliers. Intersite cake in trucks was undertaken by a haulage contractor, but under the management of internal staff. All transport activity was managed by our in-house logistics team and therefore all deemed to be undertaken by the incumbent and not a third party. The only sludge transport undertaken by dedicated pipeline is a transfer between Beckton and Riverside sludge centres in east London.

Contractors were also used to undertake haulage and spreading of final product, but under our management. During the period, only dewatered sludge cake was recycled, therefore no liquid tanker operations were employed for final disposal.

Actual road distances were not available, so radial distance inflated by a multiplier of 1.4 was applied. This factor was calculated from a sample set of data where radial distances between sites were compared to actual road distances.

## Table 8B: Bioresources operating expenditure analysis

This table shows the bioresources operating expenditure for the upstream services, processes and disposal routes.

| Line description<br>Units: £m                     | Pipeline | Tanker | Truck | Total | RAG 4<br>Ref |
|---|----------|--------|-------|-------|--------------|
| Sludge transport method                           |          |        |       |       |              |
| Power   | 0.000    | 0.013  | 0.003 | 0.016 | 8B.1         |
| Income treated as negative expenditure            | 0.000    | 0.000  | 0.000 | 0.000 | 8B.2         |
| Discharge consents                                | 0.000    | 0.000  | 0.000 | 0.000 | 8B.3         |
| Bulk discharge                                    | 0.000    | 0.000  | 0.000 | 0.000 | 8B.4         |
| Other operating expenditure                       |          |        |       |       |              |
| Renewals expensed in year (Infrastructure)        | 0.000    | 0.000  | 0.000 | 0.000 | 8B.5         |
| Renewals expensed in year (Non-Infrastructure)    | 0.000    | 0.000  | 0.000 | 0.000 | 8B.6         |
| Other operating expenditure excluding renewals    | 0.054    | 6.032  | 1.252 | 7.338 | 8B.7         |
| Total functional expenditure                      | 0.054    | 6.045  | 1.255 | 7.354 | 8B.8         |
| Local authority and Cumulo rates                  | 0.000    | 0.000  | 0.000 | 0.000 | 8B.9         |
| Total operating expenditure (excluding 3rd party) | 0.054    | 6.045  | 1.255 | 7.354 | 8B.10        |

| Line description<br>Units: £m                      | Untreated<br>Sludge | Raw<br>Sludge<br>liming | Conventional<br>AD | Incineration<br>of raw<br>sludge | Photo-<br>conditioning/<br>composting | Advanced<br>Anaerobic<br>Digestion | Other | Total   | RAG 4<br>Ref |
|--|---------------------|-------------------------|--------------------|----------------------------------|---------------------------------------|------------------------------------|-------|---------|--------------|
| Sludge treatment type                              |                     |                         |                    |                                  |                                       |                                    |       |         |              |
| Power  | -0.028              | -0.194                  | -4.256             | -1.331                           | 0.000                                 | -8.054                             | 0.000 | -13.863 | 8B.11        |
| Income treated as negative expenditure             | 0.000               | 0.000                   | -5.526             | -1.697                           | 0.000                                 | -10.458                            | 0.000 | -17.681 | 8B.12        |
| Discharge consents                                 | 0.000               | 0.000                   | 0.000              | 0.000                            | 0.000                                 | 0.000                              | 0.000 | 0.000   | 8B.13        |
| Bulk discharge                                     | 0.000               | 0.000                   | 0.000              | 0.000                            | 0.000                                 | 0.000                              | 0.000 | 0.000   | 8B.14        |
| Other operating expenditure                        |                     |                         |                    |                                  |                                       |                                    |       |         |              |
| Renewals expensed in year (Infrastructure)         | 0.000               | 0.000                   | 0.000              | 0.000                            | 0.000                                 | 0.000                              | 0.000 | 0.000   | 8B.15        |
| Renewals expensed in year (Non-<br>Infrastructure) | 0.000               | 0.000                   | 0.000              | 0.000                            | 0.000                                 | 0.000                              | 0.000 | 0.000   | 8B.16        |
| Other operating expenditure excluding renewals     | 0.103               | 0.718                   | 15.752             | 4.926                            | 0.000                                 | 29.811                             | 0.000 | 51.310  | 8B.17        |
| Total functional expenditure                       | 0.075               | 0.524                   | 5.970              | 1.898                            | 0.000                                 | 11.299                             | 0.000 | 19.766  | 8B.18        |
| Local authority and Cumulo rates                   | 0.001               | 0.006                   | 0.138              | 0.043                            | 0.000                                 | 0.261                              | 0.000 | 0.449   | 8B.19        |
| Total operating expenditure (excluding 3rd party)  | 0.076               | 0.530                   | 6.108              | 1.941                            | 0.000                                 | 11.560                             | 0.000 | 20.215  | 8B.20        |

| Line description<br>Units: £m                      | Landfill,<br>raw | Landfill,<br>partly<br>treated | Land<br>restoration/<br>reclamation | Sludge<br>recycled to<br>farmland | Incineration<br>of digested<br>Sludge | Other | Total  | RAG 4 Ref |
|--|------------------|--------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|-------|--------|-----------|
| Power  | 0.000            | 0.000                          | 0.005                               | 1.253                             | 0.000                                 | 0.000 | 1.258  | 8B.21     |
| Income treated as negative expenditure             | 0.000            | 0.000                          | -0.003                              | -0.808                            | 0.000                                 | 0.000 | -0.811 | 8B.22     |
| Discharge consents                                 | 0.000            | 0.000                          | 0.000                               | 0.000                             | 0.000                                 | 0.000 | 0.000  | 8B.23     |
| Bulk discharge                                     | 0.000            | 0.000                          | 0.000                               | 0.000                             | 0.000                                 | 0.000 | 0.000  | 8B.24     |
| Renewals expensed in year (Infrastructure)         | 0.000            | 0.000                          | 0.000                               | 0.000                             | 0.000                                 | 0.000 | 0.000  | 8B.25     |
| Renewals expensed in year (Non-<br>Infrastructure) | 0.000            | 0.000                          | 0.000                               | 0.000                             | 0.000                                 | 0.000 | 0.000  | 8B.26     |
| Other operating expenditure excluding renewals     | 0.000            | 0.000                          | 0.156                               | 38.863                            | 0.000                                 | 0.000 | 39.019 | 8B.27     |
| Total functional expenditure                       | 0.000            | 0.000                          | 0.158                               | 39.308                            | 0.000                                 | 0.000 | 39.466 | 8B.28     |
| Local authority and Cumulo rates                   | 0.000            | 0.000                          | 0.000                               | 0.049                             | 0.000                                 | 0.000 | 0.049  | 8B.29     |
| Total operating expenditure (excluding 3rd party)  | 0.000            | 0.000                          | 0.158                               | 39.357                            | 0.000                                 | 0.000 | 39.515 | 8B.30     |

## Table 8C: Bioresources energy and liquors analysis

This table shows the energy generated and income received for our bioresources price control.

| Line description   | Electricity<br>MWh | Heat<br>MWh | Biomethane<br>MWh | Total<br>MWh |
|--|--------------------|-------------|-------------------|--------------|
| Energy consumption – bioresources  |                    |             |                   | 423,019      |
| Energy generated by and used in bioresources control                     | 144,823            | 211,255     | 0                 | 356,079      |
| Energy generated by bioresources and used in network plus control        | -138,467           | -1,637      | 0                 | -140,104     |
| Energy generated by bioresources and exported to the grid or third party | -18,306            | 0           | -32,814           | -51,120      |
| Energy generated by bioresources that is unused                          | 0                  | 157,940     | 1,351             | 159,290      |
| Energy bought from grid or third party and used in bioresources control  | 95,470             | 22,590      | 0                 | 118,060      |

| Line description   | Electricity<br>£m | Heat<br>£m | Biomethane<br>£m | Total<br>£m | RAG 4<br>Ref |
|--|-------------------|------------|------------------|-------------|--------------|
| Energy consumption - bioresources  |                   |            |                  | 73.235      | 8C.1         |
| Energy generated by and used in<br>bioresources control                  | 31.904            | 20.047     | 0.000            | 51.951      | 8C.2         |
| Energy generated by bioresources and used in network plus control        | -29.842           | -0.413     | 0.000            | -30.255     | 8C.3         |
| Energy generated by bioresources and exported to the grid or third party | -3.348            | 0.000      | 1.920            | -1.428      | 8C.4         |
| Energy generated by bioresources that is unused                          |                   |            |                  |             | 8C.5         |
| Energy bought from grid or third party and used in bioresources control  | 20.458            | 2.254      | 0.000            | 22.712      | 8C.6         |

| Income from renewable energy subsidies  | Unit | Value   | RAG 4<br>Ref |
|---|------|---------|--------------|
| Income claimed from Renewable Energy Certificates (ROCs)                                    | £m   | -9.014  | 8C.7         |
| Income claimed from Renewable Heat Incentives (RHIs)  | £m   | -1.239  | 8C.8         |
| Income claimed from ROC recycle income  | £m   | -1.426  | 8C.9         |
| Income claimed from [other renewable energy subsidy (2)]                                    | £m   | 0.000   | 8C.10        |
| Income claimed from [other renewable energy subsidy (3)]                                    | £m   | 0.000   | 8C.11        |
| Total income claimed from renewable energy subsidies  | £m   | -11.679 | 8C.12        |
| % of total number of renewable energy subsidies due to expire in the next 2 financial years | %    | 0%      | 8C.13        |
| This year's value of renewable energy subsidies due to expire in the next 2 financial years | £m   | 0.000   | 8C.14        |

| Bioresources liquors treated by network plus (shadow reported)                                   | Unit           | Value  | RAG 4<br>Ref |
|--|----------------|--------|--------------|
| BOD load of liquor or partially treated liquor returned from<br>bioresources to network plus     | kg/d           | 24,007 | 8C.15        |
| Ammonia load of liquor or partially treated liquor returned from bioresources to network plus    | kg Amm-<br>N/d | 17,555 | 8C.16        |
| Recharge to Bioresources by network plus for costs of handling and treating bioresources liquors | £m             | 14.070 | 8C.17        |

|  | Electricity | Heat    | Biomethane | Total    |
|--|-------------|---------|------------|----------|
| Line description   | MWh         | MWh     | MWh        | MWh      |
| Energy consumption – bioresources  |             |         |            | 423,019  |
| Energy generated by and used in bioresources control                     | 144,823     | 211,255 | 0          | 356,079  |
| Energy generated by bioresources and used in network plus control        | -138,467    | -1,637  | 0          | -140,104 |
| Energy generated by bioresources and exported to the grid or third party | -18,306     | 0       | -32,814    | -51,120  |
| Energy generated by bioresources that is unused                          | 0           | 157,940 | 1,351      | 159,290  |
| Energy bought from grid or third party and used in bioresources control  | 95,470      | 22,590  | 0          | 118,060  |

| Line description   | Electricity | Heat   | Biomethane | Total   | RAG 4 |
|--|-------------|--------|------------|---------|-------|
|  | £m £m       |        | £m £m      |         | Ref   |
| Energy consumption - bioresources  |             |        |            | 73.235  | 8C.18 |
| Energy generated by and used in bioresources control                     | 31.904      | 20.047 | 0.000      | 51.951  | 8C.19 |
| Energy generated by bioresources and used in<br>network plus control     | -29.842     | -0.413 | 0.000      | -30.255 | 8C.20 |
| Energy generated by bioresources and exported to the grid or third party | -3.348      | 0.000  | 1.920      | -1.428  | 8C.21 |
| Energy generated by bioresources that is unused                          |             |        |            |         | 8C.22 |
| Energy bought from grid or third party and used in bioresources control  | 20.458      | 2.254  | 0.000      | 22.712  | 8C.23 |

|   | %  | RAG 4<br>Ref |
|---|----|--------------|
| Percentage of bioresources energy consumption that is metered | 56 | 8C.24        |

#### Additional commentary on bioresources energy and liquors analysis

## Lines 15 and 16: Biochemical oxygen demand ("BOD") load and ammonia load of liquor or partially treated liquor returned from bioresources to network plus

During the period, all dewatering centres and sludge treatment facilities produced liquor which was returned to the adjacent STW for treatment. Whilst we have started a programme to routinely measure these loads, we were unable to provide representative samples across all sites, due to difficulties with identifying suitable sampling locations and, in some instances, safe access to the sampling facility.

We have therefore only periodically tested these liquors for BOD and ammonia concentration and have used our generic asset standard loading rates for typical liquor strength according to the dewatering technologies and processes.

Additionally, due to the arrangement on each site, measurement of liquor flows is difficult to assess. Therefore, the annual average daily flows into the dewatering plant and the associated dry solids concentration of the ingoing and outgoing sludge were used to calculate the volume of liquor. These figures were also adjusted to take out the polymer and wash water used during the dewatering process.

It should be noted that changes year on year for these lines are likely attributable to our focus on continually optimising the sludge management in both transfers between strategic sites and managing locally indigenous sludge. We aim to minimise and balance factors such as the impact of costs to transport, the impact of tanker movements on local communities and other operational costs to the business.

## Line 17: Recharge to bioresources by network plus for costs of handling and treating bioresources liquors

The cost to treat the liquor was calculated using the liquor concentrations from lines 15 and 16. Given that the cost is predominantly associated with the ammonia loads, our cost base was the proportion of the secondary treatment process at each STW in operation. We used the estimated modern equivalent asset value ("MEAV") of the secondary treatment process plus the operating costs incurred in treating the load and the associated thickening costs of handling the biological sludge generated.

## Table 8D: Bioresources sludge treatment and disposal data

This table reports the percentage of sludge treatment processes and percentage of (unincinerated) sludge disposal and recycling routes.

| Line description<br>Unit: %                             | By incumbent | By 3rd party<br>sludge service<br>providers | RAG 4<br>Ref |
|---|--------------|---|--------------|
| % Sludge – untreated                                    | 0.4%         | 0.0%  | 8D.1         |
| % Sludge treatment process - raw sludge liming          | 1.2%         | 0.0%  | 8D.2         |
| % Sludge treatment process - conventional AD            | 30.7%        | 0.0%  | 8D.3         |
| % Sludge treatment process - advanced AD                | 58.1%        | 0.0%  | 8D.4         |
| % Sludge treatment process - incineration of raw sludge | 9.6%         | 0.0%  | 8D.5         |
| % Sludge treatment process - other (specify)            | 0.0%         | 0.0%  | 8D.6         |
| % Sludge treatment process – Total                      | 100.0%       | 0.0%  | 8D.7         |
| % Sludge disposal route - landfill, raw                 | 0.0%         | 0.0%  | 8D.8         |
| % Sludge disposal route - landfill, partly treated      | 0.0%         | 0.0%  | 8D.9         |
| % Sludge disposal route - land restoration/ reclamation | 0.7%         | 0.0%  | 8D.10        |
| % Sludge disposal route - sludge recycled to farmland   | 99.3%        | 0.0%  | 8D.11        |
| % Sludge disposal route - other (specify)               | 0.0%         | 0.0%  | 8D.12        |
| % Sludge disposal route – Total                         | 100.0%       | 0.0%  | 8D.13        |

Section 9 Innovation

## Table 9A: Innovation competition

This table shows how much we have collected from customers for the innovation fund and how the funds will be spent.

| Line description<br>Units: £m   | Current year | RAG 4<br>Ref |
|---|--------------|--------------|
| Allocated innovation competition fund price control revenue                                 | 8.106        | 9A.1         |
| Innovation fund income from customers   | 7.935        | 9A.2         |
| Income from customers to fund innovation projects the company is leading on                 | 7.729        | 9A.3         |
| Income from customers as part of the inflation top-up mechanism                             | 0.000        | 9A.4         |
| Income from other water companies to fund innovation projects the company is leading on     | 0.000        | 9A.5         |
| Income from customers that is transferred to other companies as part of the innovation fund | 10.222       | 9A.6         |
| Non-price control revenue (e.g. royalties)  | 0.000        | 9A.7         |
| Administration charge for innovation partner  | 0.309        | 9A.8         |

| Line description * excluding 10% partnership contribution   | Total amount of<br>funding<br>awarded to the<br>lead company<br>through the<br>innovation fund | Total<br>amount of<br>inflation top-<br>up funding<br>received | Forecast<br>expenditure<br>on innovation<br>fund projects<br>in year* | Actual<br>expenditure<br>on innovation<br>fund projects<br>in year * | Difference<br>between<br>actual and<br>forecast<br>expenditure | Forecast<br>project lifecycle<br>expenditure on<br>innovation fund<br>projects* | Cumulative<br>actual<br>expenditure<br>on innovation<br>fund<br>projects* |
|---|--|--|---|--|--|---|---|
| AI & sewer defects analysis                                 | 0.189  | 0.000  | 0.000   | 0.000  | 0.000  | 0.189   | 0.000   |
| Supporting customers in vulnerable circumstances            | 0.215  | 0.000  | 0.000   | 0.000  | 0.000  | 0.215   | 0.000   |
| Spring - UK Water Sector Innovation Centre of<br>Excellence | 0.250  | 0.000  | 0.000   | 0.000  | 0.000  | 0.250   | 0.000   |
| Transforming the energy balance of<br>wastewater treatment  | 6.260  | 0.000  | 1.209   | 0.898  | -0.311   | 6.260   | 0.898   |

| Line description * excluding 10% partnership contribution                     | Total amount of<br>funding<br>awarded to the<br>lead company<br>through the | Total<br>amount of<br>inflation top-<br>up funding | Forecast<br>expenditure<br>on innovation<br>fund projects | Actual<br>expenditure<br>on innovation<br>fund projects | Difference<br>between<br>actual and<br>forecast | Forecast<br>project lifecycle<br>expenditure on<br>innovation fund | Cumulative<br>actual<br>expenditure<br>on innovation<br>fund |
|---|---|--|---|---|---|--|--|
|   | innovation fund   | received   | in year*  | in year *   | expenditure                                     | projects*  | projects*  |
| Artificial Intelligence of Things Enabling<br>Autonomous Waste Catchments     | 1.998   | 0.000  | 0.000   | 0.000   | 0.000   | 1.998  | 0.000  |
| Catchment Systems Thinking Cooperative (CaSTCo)                               | 6.395   | 0.000  | 0.000   | 0.000   | 0.000   | 6.395  | 0.000  |
| Pipebots for rising mains   | 0.231   | 0.000  | 0.207   | 0.208   | 0.001   | 0.231  | 0.208  |
| The Use of Sub-Seasonal Forecasting to<br>Improve Operational Decision Making | 0.679   | 0.000  | 0.060   | 0.045   | -0.015  | 0.679  | 0.045  |
| Towards incentivisation for community-centric rainwater management            | 0.225   | 0.000  | 0.022   | 0.061   | 0.039   | 0.225  | 0.061  |
| Unlocking digital twins   | 0.335   | 0.000  | 0.284   | 0.000   | -0.284  | 0.335  | 0.000  |
| A HERU for Screenings   | 0.198   | 0.000  | 0.000   | 0.000   | 0.000   | 0.198  | 0.000  |
| Designer Liner  | 0.174   | 0.000  | 0.000   | 0.000   | 0.000   | 0.174  | 0.000  |
| Support for All   | 0.632   | 0.000  | 0.000   | 0.000   | 0.000   | 0.632  | 0.000  |
| Tap Water Forensics   | 0.371   | 0.000  | 0.000   | 0.000   | 0.000   | 0.371  | 0.000  |
| Unlocking bioresource market growth   | 0.314   | 0.000  | 0.000   | 0.000   | 0.000   | 0.314  | 0.000  |
| Catalysing Net-Zero   | 0.762   | 0.000  | 0.000   | 0.000   | 0.000   | 0.762  | 0.000  |
| National leakage research and test centre                                     | 5.320   | 0.000  | 0.000   | 0.000   | 0.000   | 5.320  | 0.000  |
| Enabling Water Smart Communities  | 5.535   | 0.000  | 0.000   | 0.000   | 0.000   | 5.535  | 0.000  |
| Total   | 30.084  | 0.000  | 1.782   | 1.212   | -0.570  | 30.084   | 1.212  |

| ne description<br>excluding 10% partnership contribution                  | Difference<br>between actual<br>and forecast<br>expenditure | Allowed future<br>expenditure on<br>innovation fund<br>projects * | In year expenditure<br>on<br>innovation projects<br>funded by<br>shareholders of the<br>lead water company | In year<br>expenditure on<br>innovation<br>projects funded<br>by project<br>partner<br>contribution | Cumulative<br>expenditure on<br>innovation projects<br>funded by<br>shareholders of the<br>lead water<br>company | Cumulative<br>expenditure on<br>innovation<br>projects funded<br>by project<br>partner<br>contributions | RAG 4<br>ref |
|---|---|---|--|---|--|---|--------------|
| Al & sewer defects analysis   | -0.189  | 0.000   | 0.000  | 0.004   | 0.000  | 0.004   | 9A.9         |
| Supporting customers in vulnerable<br>sircumstances                       | -0.215  | 0.000   | 0.000  | 0.012   | 0.000  | 0.012   | 9A.10        |
| Spring - UK Water Sector Innovation Centre of<br>Excellence               | -0.250  | 0.000   | 0.000  | 0.033   | 0.000  | 0.033   | 9A.11        |
| ransforming the energy balance of vastewater treatment                    | -5.362  | 5.051   | 0.100  | 0.000   | 0.100  | 0.000   | 9A.12        |
| Artificial Intelligence of Things Enabling<br>Autonomous Waste Catchments | -1.998  | 1.998   | 0.000  | 0.057   | 0.000  | 0.057   | 9A.13        |
| Catchment Systems Thinking Cooperative<br>CaSTCo)                         | -6.395  | 6.395   | 0.000  | 0.040   | 0.000  | 0.040   | 9A.14        |
| Pipebots for rising mains   | -0.023  | 0.024   | 0.023  | 0.000   | 0.023  | 0.000   | 9A.15        |
| he Use of Sub-Seasonal Forecasting to more operational Decision Making    | -0.634  | 0.619   | 0.005  | 0.000   | 0.005  | 0.000   | 9A.16        |
| owards incentivisation for community-centric ainwater management          | -0.164  | 0.203   | 0.007  | 0.000   | 0.007  | 0.000   | 9A.17        |
| Jnlocking digital twins   | -0.335  | 0.051   | 0.000  | 0.000   | 0.000  | 0.000   | 9A.18        |
| A HERU for Screenings   | -0.198  | 0.000   | 0.000  | 0.002   | 0.000  | 0.002   | 9A.19        |
| Designer Liner  | -0.174  | 0.000   | 0.000  | 0.004   | 0.000  | 0.004   | 9A.20        |
| Support for All   | -0.632  | 0.000   | 0.000  | 0.000   | 0.000  | 0.000   | 9A.21        |
| ap Water Forensics  | -0.371  | 0.000   | 0.000  | 0.000   | 0.000  | 0.000   | 9A.22        |
| Jnlocking bioresource market growth                                       | -0.314  | 0.000   | 0.000  | 0.000   | 0.000  | 0.000   | 9A.23        |
| Catalysing Net-Zero   | -0.762  | 0.000   | 0.000  | 0.000   | 0.000  | 0.000   | 9A.24        |
| National leakage research and test centre                                 | -5.320  | 0.000   | 0.000  | 0.056   | 0.000  | 0.056   | 9A.25        |
| Enabling Water Smart Communities  | -5.535  | 0.000   | 0.000  | 0.190   | 0.000  | 0.190   | 9A.26        |
| otal  | -28.872   | 14.341  | 0.135  | 0.397   | 0.135  | 0.397   | 9A.27        |

Section 10 Green Recovery

#### About our Green Economic Recovery ("GER") plans

This is the required narrative as requested as part of the additional reporting requirements set out in Ofwat's Final Decisions document<sup>78</sup> published in July 2021.

Our GER programme focuses on the installation of 204,700 additional smart meters in AMP7, including new household meter installations in the Thames Valley region, the replacement of existing basic non-household meters and the installation of bulk meters.

There has been no delivery on the programme in 2022/23, although £1.062m has been spent on preparatory work for meter installations.

We are engaging with Ofwat to consider removal of the linkage between our Y5 3YAA leakage performance and the delivery of this plan. The outcome of this discussion could impact the delivery of the GER programme.

### Table 10A: Green recovery data capture additional items for the 12 months ended 31 March 2023

|   | Units | Basic meter | RAG 4 Ref | Main<br>table Ref |
|---|-------|-------------|-----------|-------------------|
| Total length of new potable mains                             | nr    | 0.0         | 10A.1     | 6C.4              |
| Number of lead communication pipes replaced for water quality | km    | 0           | 10A.2     | 6C.21             |

|   | Units | Basic<br>meter | AMR<br>meter | AMI<br>meter | RAG 4<br>Ref | Main<br>table Ref |
|---|-------|----------------|--------------|--------------|--------------|-------------------|
| New selective meters installed for existing customers                   | £m    |                |              | 1.062        | 10A.3        | 6D.2              |
| New business meters installed for existing customers                    | £m    |                |              | 0.000        | 10A.4        | 6D.3              |
| Residential meters renewed  | £m    |                |              | 0.000        | 10A.5        | 6D.4              |
| Business meters renewed   | £m    |                |              | 0.000        | 10A.6        | 6D.5              |
| Replacement of basic meters with smart meters for residential customers | 000s  |                |              | 0.000        | 10A.7        | 6D.7              |
| Replacement of AMR meter with AMI meters for residential customers      | 000s  |                |              | 0.000        | 10A.8        | 6D.8              |
| Replacement of basic meters with smart meters for business customers    | 000s  |                |              | 0.000        | 10A.9        | 6D.9              |
| Replacement of AMR meter with AMI meters for<br>business customers      | 000s  |                |              | 0.000        | 10A.10       | 6D.10             |

<sup>78</sup> https://www.ofwat.gov.uk/publication/green-economic-recovery-final-decisions/

|   | Units | Basic<br>meter | AMR<br>meter | AMI<br>meter | RAG 4<br>Ref | Main<br>table Ref |
|---|-------|----------------|--------------|--------------|--------------|-------------------|
| New residential meters installed for existing customers – supply-demand balance benefit                   | 000s  |                | 0.00         | 0.00         | 10A.11       | 6D.11             |
| New business meters installed for existing customers – supply-demand balance benefit                      | 000s  |                |              | 0.00         | 10A.12       | 6D.12             |
| Replacement of basic meter with smart meters for residential customers – supply-demand balance benefit    | 000s  |                | 0.00         | 0.00         | 10A.13       | 6D.13             |
| Replacement of AMR meter with AMI meter for residential customers– supply-demand balance benefit          | 000s  |                |              | 0.00         | 10A.14       | 6D.14             |
| Replacement of basic meter with smart meters for<br>business customers – supply-demand balance<br>benefit | MI/d  |                |              | 0.00         | 10A.15       | 6D.15             |
| Replacement of AMR meter with AMI meter for<br>business customers– supply-demand balance<br>benefit       | MI/d  |                |              | 0.00         | 10A.16       | 6D.16             |
| New selective meters installed for existing customers   | MI/d  |                | 0.00         | 0.00         | 10A.17       | 6D.17             |
| New business meters installed for existing customers  | MI/d  |                |              | 0.00         | 10A.18       | 6D.18             |
| Residential meters renewed  | MI/d  |                | 0.00         | 0.00         | 10A.19       | 6D.19             |
| Business meters renewed   | MI/d  |                |              | 0.00         | 10A.20       | 6D.20             |

| Leakage activities                                  | Units | Input | RAG 4 Ref | Main table Ref |
|---|-------|-------|-----------|----------------|
| Leakage improvements delivering benefits in 2020-25 | MI/d  | 0.00  | 10A.21    | 6D.23          |

|   | Units |      | RAG 4 Ref | Main table Ref |
|---|-------|------|-----------|----------------|
| Additional storm tank capacity provided at STWs (grey infrastructure)   | m3    | 0.00 | 10A.22    | 7E.11          |
| Additional effective storm storage capacity at sewage treatment work (delivered through green infrastructure) | m3    | 0.00 | 10A.23    | 7E.12          |
| Additional volume of network storage at CSOs etc to reduce spill frequency (grey infrastructure)              | m3    | 0.00 | 10A.24    | 7E.13          |
| Additional effective storage in the network delivered through green infrastructure                            | m3    | 0.00 | 10A.25    | 7E.14          |

## Table 10B: Water common performance commitments relevant to green recovery reporting

| Line description<br><i>Unique Reference</i> | Unit | Standardising<br>data indicator | Standardis<br>ing data<br>numerical<br>value | Performance<br>level - actual<br>impacts of<br>green recovery<br>investment<br>element only<br>(current<br>reporting year) | Performance<br>level - actual<br>impacts of green<br>recovery<br>investment<br>element only<br>calculated (i.e.<br>standardised) | RAG 4<br>Ref | Main<br>Table<br>Ref |
|---|------|---------------------------------|--|--|--|--------------|----------------------|
| Per capita consumption (PCC)<br><i>BW05</i> | lpd  | Total household<br>population   | 10,276                                       | 0  | 0.00   | 10B.1        | 3F.4                 |

| Line description   | Unit | Performance level - actual |           |           |           |           |       | Main<br>Table |
|--|------|----------------------------|-----------|-----------|-----------|-----------|-------|---------------|
| Unique Reference   | Onit | (2020/21)                  | (2021/22) | (2022-23) | (2023-24) | (2024-25) | Ref   | Ref           |
| Leakage - actual including impacts of green recovery investment BW04   | MI/d | 593.2                      | 593.8     | 619.7     |           |           | 10B.2 | 3F.5          |
| Leakage - actual impacts of green recovery investment element only <i>BW04</i>                               | MI/d | 0                          | 0         | 0         |           |           | 10B.2 | 3F.5          |
| Per capita consumption (PCC) -<br>actual impacts of green recovery<br>investment element only<br><i>BW05</i> | lpd  | 0                          | 0         | 0         |           |           | 10B.3 | 3F.6          |

# Table 10C: Wastewater common performance commitments relevant to green recovery reporting

| Line description<br><i>Unique Reference</i>  | Unit                                       | Standardising<br>data indicator   | Standardising<br>data<br>numerical<br>value | Performance<br>level - actual<br>impacts of<br>green recovery<br>investment<br>element only<br>(current<br>reporting year) | Performance<br>level - actual<br>impacts of green<br>recovery<br>investment<br>element only<br>calculated (i.e.<br>standardised) | RAG 4<br>Ref | Main<br>Table<br>Ref |
|--|--|-----------------------------------|---|--|--|--------------|----------------------|
| Internal sewer<br>flooding - customer<br>proactively reported<br><i>CS03</i>                                   | Number per<br>10,000 sewer<br>connections  | Number of<br>sewer<br>connections | 6,139.596                                   | 0  | 0  | 10C.1        | 3G.1                 |
| Internal sewer<br>flooding - company<br>reactively identified<br>(i.e. neighbouring<br>properties) <i>CS03</i> | Number per<br>10,000 sewer<br>connections  | Number of<br>sewer<br>connections | 6,139.596                                   | 0  | 0  | 10C.2        | 3G.2                 |
| Internal sewer flooding <i>CS03</i>  | Number per<br>10,000 sewer<br>connections  | Number of<br>sewer<br>connections | 6,139.596                                   | 0  | 0  | 10C.3        | 3G.3                 |
| Pollution Incidents <i>ES01</i>  | Number per<br>10,000 km of<br>sewer length | Sewer<br>length in km             | 10,8980                                     | 0  | 0  | 10C.4        | 3G.4                 |

| Line description<br><i>Unique Reference</i>   | Unit | Decimal<br>places | Performance<br>level - actual<br>impacts of<br>green recovery<br>investment<br>element only<br>(current<br>reporting year) | RAG 4<br>Ref | Main<br>Table<br>Ref |
|---|------|-------------------|--|--------------|----------------------|
| Risk of sewer flooding in a storm <i>DS01</i> | %    | 2                 | 0  | 10C.5        | 3E.5                 |

| Line description<br><i>Unique Reference</i> | Total pe<br>served | Total pe in<br>excluded<br>catchments | Percentage of<br>total pe in<br>excluded<br>catchments |   | e level - actual<br>nt element only<br>% of total<br>pe Option<br>1a |   |   |
|---|--------------------|---------------------------------------|--|---|--|---|---|
| Risk of sewer flooding in a storm           | 15,018,284         | 24,303                                | 0.16%  | 0 | 0  | 0 | 0 |

| Performance level - actual impacts of green recovery investment element |                              |      |  |  |  |  |  |
|---|------------------------------|------|--|--|--|--|--|
|   | only (current reporting year | r)   |  |  |  |  |  |
| Vulnerability risk grade  |                              |      |  |  |  |  |  |
| Low   | Medium                       | High |  |  |  |  |  |
| Percentage of total population served                                   |                              |      |  |  |  |  |  |
| 0.0%  | 0.0%                         | 0.0% |  |  |  |  |  |
|   |                              |      |  |  |  |  |  |

# Table 10D: Bespoke performance commitments relevant to green recovery reporting

| Line description                                      | Ref | Unit | Performance level<br>recovery investm<br>Previous reporting<br>year | ent element only | RAG 4<br>Ref |
|---|-----|------|---|------------------|--------------|
| Installing new smart meters in London                 | M01 | nr   | 0   | 0                | 10D.1        |
| Replacing existing meters with smart meters in London | M02 | nr   | 0   | 0                | 10D.2        |

### Table 10E: Green recovery data capture reconciliation model input for the 12 months ended 31 March 2023

| Scheme 1: Smart Meters    |   |                   |      |                                     |                            |                        |                               |                     |
|---------------------------|---|-------------------|------|-------------------------------------|----------------------------|------------------------|-------------------------------|---------------------|
| Total allowance, £71.917m |   |                   |      |                                     | 2021-22                    |                        | 2022-23                       |                     |
|                           |   | Allowance<br>(£m) | Unit | Component<br>level at<br>completion | Component<br>level to date | Percentage<br>complete | Component<br>level to<br>date | Percentage complete |
| Component 1               | Number of new household smart meter<br>installations completed in the Thames Valley<br>water resource zones                                   | 59.322            | 000s | 200                                 | 0                          | 0.00%                  | 0                             | 0%                  |
| Component 2               | Number of non-household basic meters<br>replaced with smart meters  | 0.178             | 000s | 3                                   | 0                          | 0.00%                  | 0                             | 0%                  |
| Component 4               | Number of new small bulk smart meter<br>installations   | 0.872             | 000s | 1.5                                 | 0                          | 0.00%                  | 0                             | 0%                  |
| Component 6               | Number of new large bulk smart meter<br>installations   | 0.545             | 000s | 0.2                                 | 0                          | 0.00%                  | 0                             | 0%                  |
| Component 8               | Communication coverage of household<br>properties in the Slough-Wycombe-Aylesbury<br>(SWA), Henley and Kennet Valley water<br>resource zones. | 11                | %    | 96%                                 | 0%                         | 0.00%                  | 0                             | 0%                  |

|             |  | 2023-24                 |                     | 2024-25                 |                     | 2025-26                 |                     | RAG 4  |
|-------------|--|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|--------|
|             |  | Component level to date | Percentage complete | Component level to date | Percentage complete | Component level to date | Percentage complete | Ref    |
| Component 1 | Number of new household smart meter installations completed in the Thames Valley water resource zones                                | 0                       | 0%                  | 0                       | 0%                  |                         |                     | 10E.51 |
| Component 2 | Number of non-household basic meters replaced with smart meters  | 0                       | 0%                  | 0                       | 0%                  |                         |                     | 10E.52 |
| Component 4 | Number of new small bulk smart meter installations   | 0                       | 0%                  | 0                       | 0%                  |                         |                     | 10E.53 |
| Component 6 | Number of new large bulk smart meter installations   | 0                       | 0%                  | 0                       | 0%                  |                         |                     | 10E.54 |
| Component 8 | Communication coverage of household properties in the Slough-Wycombe-Aylesbury (SWA), Henley and Kennet Valley water resource zones. | 0                       | 0%                  | 0                       | 0%                  |                         |                     | 10E.55 |

The allowances by component include a proportion of support costs where appropriate. 96% is the minimum communication coverage that we expect to achieve in the Slough-Wycombe-Aylesbury, Henley and Kennet Valley water resources zones.

Section 11 Greenhouse gas emissions

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# Table 11A: Operational greenhouse gas ("GHG") emissions reporting for the 12 months ended 31 March 2022

| Line description   | Water              | Wastewater         | Total              | RAG 4 |
|--|--------------------|--------------------|--------------------|-------|
|  | tCO <sub>2</sub> e | tCO <sub>2</sub> e | tCO <sub>2</sub> e | Ref   |
| Burning of fossil fuels (location-based)   | 1,107.459          | 15,516.774         | 16,624.233         | 11A.1 |
| Burning of fossil fuels (market-based)   | 1,107.459          | 15,516.774         | 16,624.233         | 11A.2 |
| Process and fugitive emissions   | 321.839            | 190,038.920        | 190,360.759        | 11A.3 |
| Vehicle transport  | 5,220.836          | 8,094.407          | 13,315.243         | 11A.4 |
| Emissions from land  | _                  | -                  | -                  | 11A.5 |
| Total scope one emissions (location-based)   | 6,650.134          | 213,650.101        | 220,300.234        | 11A.( |
| Total scope one emissions (market-based)   | 6,650.134          | 213,650.101        | 220,300.234        | 11A.  |
| Scope one emissions; GHG type CO2  | 6,242.019          | 23,254.232         | 29,496.251         | 11A.  |
| Scope one emissions; GHG type CH4  | 1.251              | 87,763.617         | 87,764.868         | 11A.9 |
| Scope one emissions; GHG type N2O  | 406.864            | 102,548.270        | 102,955.134        | 11A.1 |
| Scope one emissions: GHG other types   | 0.000              | 83.981             | 83.981             | 11A.1 |
| Purchased electricity (location-based)   | 97,951.370         | 75,649.271         | 173,600.641        | 11A.1 |
| Purchased electricity (market-based)   |                    | -                  | -                  | 11A.1 |
| Purchased heat   | _                  | _                  | _                  | 11A.1 |
| Electric vehicles  | 1.539              | 3.124              | 4.663              | 11A.1 |
| Removal of electricity to charge electric vehicles at site                                       | -                  | -                  | -                  | 11A.1 |
| Total scope two emissions (location-based)   | 97,952.909         | 75,652.395         | 173,605.304        | 11A.1 |
| Fotal scope two emissions (market-based)   | 1.539              | 3.124              | 4.663              | 11A.1 |
| Scope two emissions; GHG type CO2  | 96,853.737         | 74,803.467         | 171,657.204        | 11A.1 |
| Scope two emissions; GHG type CH4  | 405.225            | 312.969            | 718.193            | 11A.2 |
| Scope two emissions; GHG type N2O  | 693.947            | 535.959            | 1,229.906          | 11A.2 |
| Scope two emissions: GHG other types   | -                  | -                  |                    | 11A.2 |
| Business travel  | 318.581            | 646.817            | 965.398            | 11A.2 |
| Outsourced activities  | 8,487.636          | 18,910.309         | 27,397.945         | 11A.2 |
| Purchased electricity; extraction, production,<br>transmission and distribution (location-based) | 34,529.656         | 26,667.757         | 61,197.413         | 11A.2 |
| Purchased electricity; extraction, production,<br>ransmission and distribution (market-based)    | 11,102.979         | 8,574.992          | 19,677.971         | 11A.2 |
| Purchased heat; extraction, production,<br>ransmission and distribution                          | -                  | -                  | -                  | 11A.2 |
| Purchased fuels; extraction, production, ransmission and distribution                            | 4,359.516          | 7,115.752          | 11,475.268         | 11A.2 |
| Chemicals  | 6,189.392          | 4,067.672          | 10,257.063         | 11A.2 |
| Disposal of waste  | 607.158            | 38,194.222         | 38,801.380         | 11A.3 |
| Total scope three emissions (location-based)   | 54,491.939         | 95,602.528         | 150,094.468        | 11A.3 |
| Total scope three emissions (market-based)   | 31,065.262         | 77,509.764         | 108,575.026        | 11A.3 |
| Scope three emissions; GHG type CO2  | 17,759.969         | 36,413.085         | 54,173.054         | 11A.3 |
| Scope three emissions; GHG type CH4  | 318.107            | 27,845.048         | 28,163.155         | 11A.3 |
| Scope three emissions; GHG type N2O  | 177.520            | 306.540            | 484.060            | 11A.3 |
| Scope three emissions: GHG other types   | 36,236.344         | 31,037.855         | 67,274.199         | 11A.3 |
| Gross operational emissions (location-based)   | 159,094.982        | 384,905.024        | 544,000.005        | 11A.3 |
| Gross operational emissions (market-based)   | 37,716.934         | 291,162.988        | 328,879.923        | 11A.3 |

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| Line description                      | Water              | Wastewater         | Total              | RAG 4  |
|---------------------------------------|--------------------|--------------------|--------------------|--------|
| Line description                      | tCO <sub>2</sub> e | tCO <sub>2</sub> e | tCO <sub>2</sub> e | Ref    |
| Exported renewables                   | -                  | 3,539.187          | 3,539.187          | 11A.39 |
| Exported biomethane                   | -                  | 4,255.078          | 4,255.078          | 11A.40 |
| Insets                                | -                  | -                  | -                  | 11A.41 |
| Other emissions reductions            | -                  | -                  | -                  | 11A.42 |
| Total emissions reductions            | -                  | 7,794.265          | 7,794.265          | 11A.43 |
| Net annual emissions (location-based) | 159,094.982        | 377,110.759        | 536,205.740        | 11A.44 |
| Net annual emissions (market-based)   | 37,716.934         | 291,162.988        | 328,879.923        | 11A.45 |
|                                       | kgCO2e/MI          | kgCO2e/MI          |                    |        |
| Emissions per MI of treated water     | 169.752            |                    |                    | 11A.46 |
| Emissions per MI of sewage treated    |                    | 241.813            |                    | 11A.47 |
|                                       | tCO2e              | tCO2e              |                    |        |
| Green tariff electricity              | 97,951.370         | 75,649.271         | 173,600.641        | 11A.48 |
| Capital projects (cradle-to-gate)     | -                  | -                  | -                  | 11A.49 |
| Capital projects (cradle-to-build)    | 219,713.542        | 204,204.990        | 423,918.533        | 11A.50 |
| Purchased goods and services          | 14,677.027         | 22,977.981         | 37,655.008         | 11A.51 |
|                                       |                    |                    |                    |        |

#### Additional commentary on greenhouse gas emissions data

#### Line 11A.36: Scope three emissions: GHG other types

This line covers the chemicals, waste administration and electricity / fuels for which an emissions split is unavailable.

#### Line 11A.45: Net annual emissions (market-based)

Market based gross and net emissions are equal, because – unlike location-based – the table does not account for emissions reductions (exports).

#### Line 11A.48: Scope three emissions: GHG other types

We procure 100% REGO-backed electricity.79

#### Line 11A.51: Purchased goods and services

This is the sum of lines 11A.24 outsourced activities and 11A.29 chemicals. Please note that these emissions are already included within our existing operational carbon reporting figures under Scope 3 emissions, and include services provided by our third parties related to operational activities such as transport, mobile plant fuel usage and office services; and emissions associated with our chemical purchase and usage.

<sup>&</sup>lt;sup>79</sup> Ofgem certificates called Renewable Energy Guarantees of Origin ("REGO") demonstrate that electricity has been generated from renewable sources.

Strengths, Weaknesses, Opportunities and Threats ("SWOT") analysis of our approach to reducing operational GHG emissions.

#### Strengths

Our approach to carbon accounting is aligned with the principles of the GHG protocol and PAS2080.

We've improved the quality of our carbon reporting and now have a final cradle to build capital report across all delivery offices and consistent reporting using the standardised Carbon Accounting Workbook ("CAW") provided by UK Water Industry Research ("UKWIR") for our operational activities.

We've approaching capital and operational carbon in parallel and have established a net zero task force to deliver our route map and support the UK targets for becoming carbon neutral.

We're engaging within and outside the industry to collaborate to implement innovative and creative solutions to the challenges faced in reducing carbon. We use 100% renewable electricity and have reduced our consumption of fossil fuels as part of the efficient reduction of our scope 1 and 2 emissions.

We've progressed our wastewater treatment process emission monitoring.

#### Weaknesses

Our carbon accounting tools are not suitable to meet the granularity in 2022/23 reporting expectations and also need updating to meet future requirements.

There isn't a consistent industry approach to wider Scope 3 carbon reporting and measurement, beyond items included within the CAW.

The industry understanding of Wastewater treatment process emissions and technologies available to control them needs to be developed.

The methodology and indicators currently used for reporting both capital and operational carbon do not sufficiently support demonstrating our actual performance and efficiency in reducing carbon throughout the development and delivery of a project.

#### Opportunities

We're improving our insights on emissions from enhanced data quality and granularity which will help inform the strategy to reduce these carbon emissions.

Our increased focus on capital carbon helps to identify and support the uptake of new technologies and approaches to reduce them.

We have identified the following operational opportunities:

- Gas to grid Biomethane sleeving to reduce fossil fuel use
- Carbon Capture on biomethane plants
- Low carbon nutrient recovery from sewage
- Low carbon wastewater treatment processes
- Reduction in fugitive emissions from sludge treatment
- Accounting for sludge to land as low carbon fertilizer

We're developing a carbon culture and increasing our technical knowledge and competencies and will implement robust training to improve further.

We'll work with our procurement teams and supply chain to develop opportunities to integrate and reinforce emissions reporting requirements and reduction into contracts and frameworks.

We'll engage with Ofwat and others to develop carbon reporting processes in an appropriate, timely and beneficial way consistent with other mandatory reporting requirements.

#### Threats

There are concerns that PR24 reporting requirements could become inconsistent with other regulatory reporting criteria, such as the TCFD and Streamlined Energy and Carbon Reporting ("SECR").

The lack of an agreed and consistent standards in the industry does not allow comparing or evaluating the performance of the water section in an objective manner.

The current approach is not suited to support the definition of carbon reduction targets.

There is a lack of clear and timely guidance for reporting. For instance, the use of a single standard methodology or tool has not been agreed yet across the industry in relation to Scope 3.

There is a lack of technological and market progress in delivering low or no carbon solutions at efficient prices.

There is uncertainty around timing and availability of funding to support UK targets.

Forecasts of capital spend show an increasing trend in capital carbon emissions, which threatens the achievement of the 2050 Net Zero goal.

The use of location-based reporting over market-based reporting will reduce focus on long term emissions by including electricity related emissions.

We've identified significant changes to baseline emissions through improved understanding of process emissions and inclusion of additional scope 3 with limited ability to influence them.

There may be conflicting environmental (or other) drivers.

### About this report

This is the regulatory accounts that we are required to publish under Condition F of the Instrument of Appointment ("licence") of Thames Water Utilities Limited (referred to in this report as "Thames Water" or the "Company") as a water and sewerage undertaker under the Water Industry Act 1991.

Our licence can be found on the Ofwat website:

https://www.ofwat.gov.uk/regulatedcompanies/ofwat-industryoverview/licences/

We have prepared this report in accordance with the Regulatory Accounting Guidelines issued by Ofwat which are:

- RAG 1.09 Principles and guidelines for regulatory reporting under the 'new UK GAAP' regime;
- RAG 2.09 Guideline for classification of costs across the price controls;
- RAG 3.14 Guideline for the format and disclosures for the Annual Performance Report;
- RAG 4.11 Guideline for the table definitions in the Annual Performance Report; and
- RAG 5.07 Guideline for transfer pricing in the water and sewerage sectors

