



Accounting Methodology Statement 2019/20

30 June 2020



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Section 1

Introduction

A Purpose

1.1 The purpose of this methodology statement (“The Statement”) is to explain the systems, processes and allocation methods used to report costs in the following tables in the Annual Performance Report (“APR”) for the year ended 31 March 2020:

Section 2: Price review and other segmental reporting:

- 2A – Segmental income statement;
- 2B – Totex analysis – Wholesale Water and Wastewater;
- 2C – Operating cost analysis - Retail;
- 2D – Historic cost analysis of tangible fixed assets – Wholesale Water, Wholesale Wastewater & Retail.

Section 4: Additional regulatory reporting:

- 4D – Totex analysis – Wholesale Water;
- 4E – Totex analysis – Wholesale Wastewater;
- 4F – Operating cost analysis –Household Retail.

1.2 These are referred to as the ‘Section 2 tables’ and ‘Section 4 tables’ throughout this document and are prepared in accordance with Regulatory Accounting Guidelines (“RAGs”).

1.3 This methodology statement should be read in conjunction with the APR for the year ended 31 March 2020. This methodology explains the Wholesale upstream services and Price Control methodology approach as stated on RAG 3.11 and therefore does not cover the approach used for the more detailed splits in the cost assessment tables.

B Scope

1.4 This document relates to Thames Water Utilities Limited appointed business only and focuses only on costs relating to that business. This statement should be read in conjunction with the following guidance:

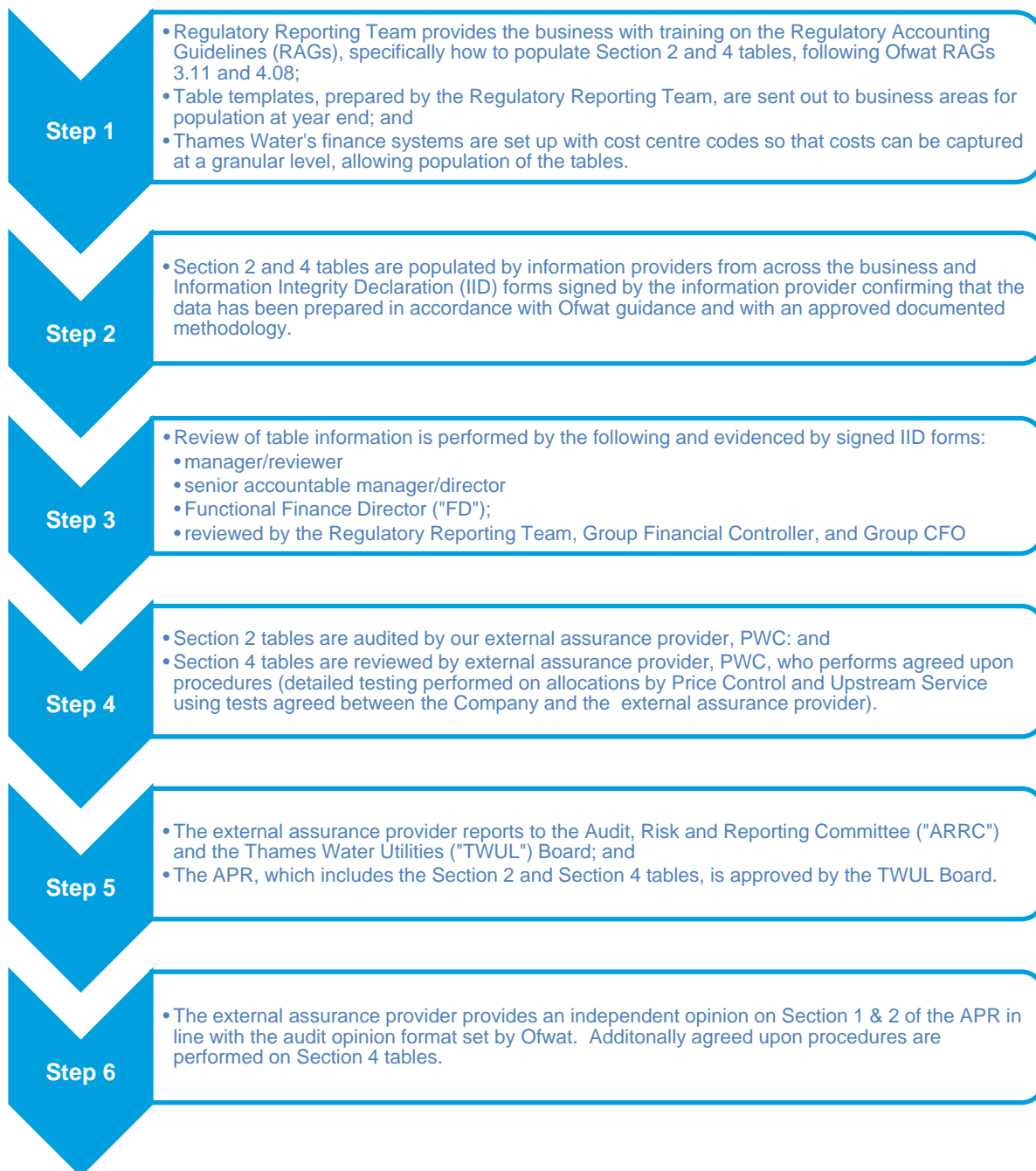
- IN 20/03 Expectations for monopoly company annual performance reporting 2019-20;
- RAG 2.07 ‘Guideline for the classification of costs across the price controls’;
- RAG 3.11 ‘Guideline for the format and disclosures for the annual performance report’;
- RAG 4.08 ‘Guideline for the table definitions for the annual performance report’;
- RAG 5.07 ‘Guideline for transfer pricing in the water and sewerage sectors’
- 2019-20 Annual Report Performance Tables.



C Governance

- 1.5 We have a robust governance framework around the production of the APR, which includes the Section 2 and 4 tables. This framework supports our commitment to our customers and stakeholders to publish information that is complete, accurate, reliable and transparent.
- 1.6 The specific governance processes that accompany the production of Section 2 and Section 4 tables are outlined overleaf:

Figure 1 - Governance Process



Source: Thames Water

The APR, which forms part of Thames Water Utilities Limited Annual Report for the year ended 31 March 2020 – and can be found on our website

<https://corporate.thameswater.co.uk/about-us/our-investors/annual-results>



Section 2

Operating Systems, Structure and Outsourced Contracts

A Operating Systems

2.1 There are two key systems used for the population of Section 2 and Section 4 tables:

- **SAP**; the primary financial accounting and management tool used by the business and the source of the data used in Anaplan;
- **Anaplan**; (implemented in 2015) is the system used for allocating operating expenditure (“Opex”) to upstream service (“US”) levels¹.

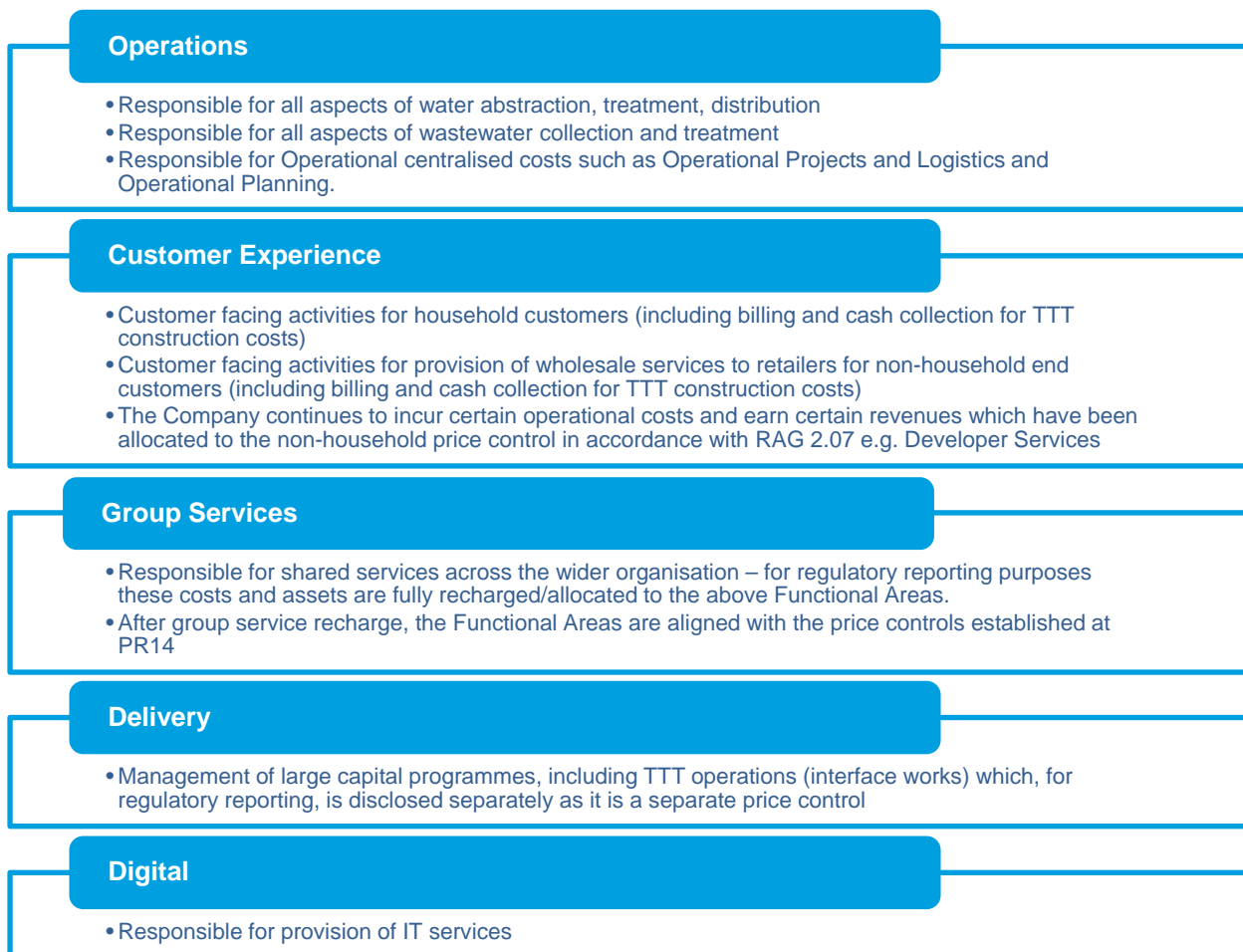
B Operating Structure

2.2 Our business is structured into a customer journey led organisation. This means that our business is structured in a way that customers want to see us - as ‘One Thames Water’ - a single organisation with clear lines of accountability for delivering the end-to-end customer experience. This helps to make sure that all parts of the business are focused on delivering high quality water and wastewater services, 24 hours a day, 365 days a year and collaborating to proactively resolve customer issues - - ensuring we are providing an overall service that is personal, affordable, valued and right first time.

2.3 In July 2016 we announced our decision to exit the non-household retail market from the date of market opening (1 April 2017). The Company entered an agreement to transfer ownership of its non-household customers to Castle Water at this time. We continue to provide wholesale services into the non-household market.

¹ Upstream services are a further disaggregation of the value chain and are used in Section 4 of the APR. These upstream services, when aggregated, form the price controls.

Figure 2 - Functional Areas



Source: Thames Water

2.4 For 2019/20 reporting RAG 4.08 Section 2 requires disaggregation for both Water and Wastewater to the following Price Controls:

- Water Resources;
- Water Network Plus;
- Wastewater Network Plus;
- Sludge (bioresources).

Table 1 below, details the Wholesale regulatory reporting structure as defined by Ofwat, which is reflected in our Anaplan regulatory model

Table 1 - Price Control unit and Upstream Service levels

Price Control Unit	Upstream Service Unit
Water Resources	<ul style="list-style-type: none"> • Abstraction licence • Raw water abstraction
Water Network Plus	<ul style="list-style-type: none"> • Raw water transport • Raw water storage • Water treatment • Treated water distribution
Wastewater Network Plus Sewage collection	<ul style="list-style-type: none"> • Foul • Surface drainage • Highway drainage
Wastewater Network Plus Sewage treatment	<ul style="list-style-type: none"> • Sewage treatment and disposal • Sludge liquor treatment
Sludge (Bioresources)	<ul style="list-style-type: none"> • Sludge transport • Sludge treatment • Sludge disposal

Source: Thames Water

- 2.5 Our main systems, SAP and Anaplan (Section 2.1), use cost centres (“CC”) as a way to capture costs at the lowest possible level by service area. For AMP6, management revised the SAP CC hierarchy to align it to the regulatory structure down to upstream service level where possible following the boundary definitions in RAG 4.08, Section 2: Disaggregation of wholesale activities – Upstream Services. Hence, where the activity of a CC is 100% attributable to one of the units listed above, and allocation of costs is not required, the cost centre is mapped, within SAP and Anaplan, directly to that unit.
- 2.6 Where the activity of a CC is not 100% attributable to any of the above, the operating expenses of those cost centres are allocated based on the underlying activity of the cost centre, based on management judgement and the use of cost drivers, across the units listed above.
- 2.7 Typically the costs that are required to be allocated are either:
- costs that are held at a site or regional level (e.g. treatment works), where the activity straddles more than one of the upstream service activities; or
 - costs where the nature of the operation does not lend itself to direct allocation e.g. in Wastewater Network Plus where we operate on a combined network (foul mixed with highway and surface); or
 - Group Services costs, which are all general & support (“G&S”) requiring allocation using the most appropriate methodology outlined in Section 6 of this methodology statement.
- 2.8 Where possible, Group Services operating expenses are directly attributed to the individual functional areas (and hence Price Controls). All other operating expenses are



allocated by expenditure type using suitable cost drivers following RAG 2.07 Section 2 guidance. The allocation process and cost drivers are detailed in Section 6 below.

2.9 The allocation process is further described in Section 5 below.

C Cost categories

2.10 Each CC is flagged in SAP and Anaplan as direct, indirect, overhead or non-appointed as defined below:

- Direct costs are defined as costs which can be clearly traced to a cost object. A cost object can be a product, contract, project or site. For example, the employment costs of a Site Manager associated with his/her site, chemicals, site maintenance and power;
- Indirect Costs are defined as costs which cannot be traced directly to one cost object or activity. For example, the employment costs of a Regional Manager who has several sites under his/her remit that relate to the Functional Areas;
- Overhead costs are defined as costs not directly related to the operational element of the Functional Areas. For example head office costs, senior managerial costs, and administration;
- Non-appointed costs are those incurred in the delivery of our non-appointed services such as billing commissions, rental income from non-appointed assets, property searches and others as defined in RAG 4.08.

D Expense line items

2.11 In Anaplan, general ledger account codes are further grouped into the operating expense line items in the Proforma tables 2B, 2C, 4D and 4E.

E Outsourced contracts

2.12 We are required to disclose any outsourcing arrangements, including agreements with other water companies and local authorities. Table 2 below lists the outsourced contracts, which the Company had in place for the year ended 31 March 2020.

Table 2 - Outsourced Contracts

Outsourced contract	Nature of contract	Managing Functional Areas
Digital	Offshore and office-based support - IBM, Accenture and Bilfinger	Group Services
Legal services	Legal services - Eversheds Sutherland	Group Services
Facilities	Facilities and maintenance – EMCOR UK Property services – Savills	Group Services
Property Searches	Property searches - HCL	Group Services
Payroll and recruitment	Payroll, recruitment and contractor payment services - Pertemps	Group Services
Metering	Meter installation/management by MGJV ² ; Meter reading - Morisson Data Services and Temetra	Customer Experience
eight2O	Support for major projects - Costain, Black and Veatch, Atkins, Skanska, Stantec UK Limited, MWH Treatment Ltd, Balfour Beatty	Delivery
Wastewater Networks	Reactive and planned network maintenance and sewerage services - Lanes	Operations
Infrastructure Alliance	infrastructure maintenance - KCD ³ and Agility ⁴	Operations & Customer Experience
Local authorities and Housing Associations	Billing and cash collection	Customer Experience
Other water companies	Billing and cash collection	Customer Experience
Billing	Annual billing performed by WIPRO and Capita	Customer Experience
Customer Assistance Funding (“CAF”)	Administration of CAF performed by Auriga	Customer Experience
Debt collection	Collection of debt - Moorcroft, Advantis, Avarto, Allied Int, 1st locate, Fair Isaac Services (FICO), GB Data, Experian, Language Line. Debt transformation - TDX, Moriarty Law, Sagacity	Customer Experience
Fire Hydrants Licence Fee Collection	Aquam	Customer Experience
Credit Sharing	Equifax	Customer Experience
Mailing and Postage	Communis, Royal Mail and Paragon	Customer Experience
Online & Other Channels	Content design provided by Hugo and Cat	Customer Experience
Customer contacts	Non-network contacts - WIPRO, Capita Customer Management Ltd and WNS Global Services (UK) Ltd	Customer Experience
Major Project Design & Consultancy	Arcadis, Stanis, Motts McDonald, Geotechnical Consulting Group Limited	Delivery

Source: Thames Water

² MGJV - Morrisons Utility services and Galliford Try joint venture

³ KCD – Kier Clancy Docwra

⁴ Agility – J. Murphy & sons and Morrison Utility Services



Section 3

Guidance

A Regulatory Accounting Guidelines ("RAGs")

- 3.1 Ofwat issued the latest RAGs in March 2019, of which RAG 4.08 'Guideline for the table definitions in the annual performance report' and RAG 2.07 'Guideline for the classification of costs across the price controls' are the primary guidance used in producing the regulatory tables. There has been no change to the RAGs since this date.
- 3.2 The following cost allocation principles have been applied when allocating costs to the relevant price controls, Price Control units and upstream services (as outlined in RAG 2.07):

Transparency:

- 3.3 The attribution methods applied within the accounting separation system need to be transparent. This requires that the costs and revenues apportioned to each service and business unit should be clearly identifiable. The cost and revenue drivers used within the system should also be clearly explained to enable a review of their appropriateness.
- 3.4 Costs apportioned to each business unit are identifiable by CC and can be traced back to our SAP ledger. This methodology statement, including our cost allocation tables (Tables 3, 4, 9, 10 and 11), provide further transparency.

Causality:

- 3.5 Cost causality requires that costs (and revenues) are allocated to those activities and services that cause the cost (or revenue) to be incurred. This requires that the attribution of costs and revenues to activities and services should be performed at as granular a level as possible
- 3.6 Wherever possible, costs are directly attributed to a price control. Some costs are less easily attributed (for example the costs of regulation). Where possible we have taken an activity-based costing approach. The method applied to allocating indirect costs is described in this methodology statement, Section 6.

Non-discrimination:

- 3.7 The attribution of costs and revenues should not favour any business unit within the regulated company and it should be possible to demonstrate that internal transfer charges are consistent with the prices charged to external third parties.
- 3.8 Costs allocated are objective and do not favour any Functional Areas, business unit or service within the regulated company and are undertaken at an arm's length.



No cross subsidy between price controls:

- 3.9 Following the introduction of separate binding price controls at the 2014 price review, companies cannot transfer costs between the price control units in setting prices and preparing regulatory accounting statements. In accordance with RAG 5, transfer prices for transactions between price control units should be based on market price unless no market exists, in which case transfer prices should be based on cost.
- 3.10 In line with the separate binding price controls introduced from April 2015, costs are not transferred between price control units and are compliant with RAG 5.07 'Guideline for transfer pricing in the water and sewerage sectors'.

Objectivity:

- 3.11 The cost and revenue attribution criteria need to be objective and should not intend to benefit any business unit or service.
- 3.12 Costs are allocated objectively and do not favour any Functional Areas, business unit or service within the regulated company. Where possible direct allocations are used, otherwise externally and internally reported measures are used that are in line with Ofwat's principles to allocate costs.

Consistency:

- 3.13 The cost and revenue attribution criteria should be consistent from year to year to enable meaningful comparison of information over time. Changes to the attribution methodology from year to year should be clearly justified and documented.
- 3.14 Cost allocation methods are kept as consistent as possible. Where changes are required, these are documented in Section 4.

Principal use:

- 3.15 Capital expenditure and depreciation should be directly attributed to one of the five⁵ services for which price limits have been set for 2015-20. Where this is not possible as the asset is used by more than one service, it should be reported in the service of principal use with recharges made to the other services that use the asset reflecting the proportion of the asset used by the other services.
- 3.16 Where possible we have directly attributed capital expenditure and the corresponding depreciation to the price control units and applied the principle use guidance for shared assets, Section 7.
- 3.17 Section 7 below details the allocation assumptions outlining how the above principles have been applied.

⁵ There are five binding price controls for AMP6 being Wholesale Water, Wholesale Waste, Retail Household, Retail Non-household and Thames Tideway Tunnel.



Section 4

Changes to methodology from 2018/19

- 4.1 During 2019/20, we have undertaken a review of our expenditure and determined some elements of leak detection spend met the criteria for capitalisation. As a result, there is a reduction in spend of c£30m which relates to amounts now being capitalised.
- 4.2 Additionally, we have undertaken a more detailed review of costs incurred for which an element relates to CESS. In 2019/20 we have been able to allocate costs on a more granular basis, resulting in an additional £2.4m allocation to CESS.

Section 5

Operating expenses - allocation assumptions

- 5.1 The following sections describe the allocation assumptions used in the production of the operating expense line items of table 2A, 2B, 2C, 4D and 4E reported in the APR.
- 5.2 Recharges between Functional Areas are allocated using the cost drivers described in tables 3, 4 and 9.

B Wholesale

- 5.3 The following are the cost drivers used for all expenditure lines listed in tables 4D and 4E. For general and support expenditure, the appropriate allocation basis is provided in Section 6.

Cost Driver A: costs can be attributed directly to the relevant US process.

Cost Driver B: costs can be directly attributed to a price control (water, wastewater) but a specific cost driver is required to allocate the cost to the appropriate Price Control unit and US process within the price control.

Cost Driver C: allocations are worked out using appropriate estimates and judgements based on available data and management understanding of the business.

In summary, 23% of Other Operating costs and 14% of power costs are directly allocated.

Wholesale water

- 5.4 Most costs can be directly attributed at source to a Price Control unit and US process within water services or to water treatment sites and allocated to the relevant process. Table 3 below details the allocation basis and assumption for each expenditure line.

Table 3 - Water service allocation basis

Expenditure line	Cost driver	Cost driver for allocation to price controls, Price Control units and US level
Power	A/B	Direct allocation by use of specific expenditure codes and cost centres to site, else allocated based on assessment of activities and sub-metering where available
Income treated as negative expenditure	B	Direct allocation by use of specific expenditure codes and cost centres to site else allocated based on assessment of activities and sub-metering where available
Service charges/discharge consents	A	Actual charge from the Environment Agency directly coded to process through cost centres and expenditure codes
Bulk supply/Bulk discharge	A	Directly coded to process through cost centres and expenditure codes
Other operating expenditure		
Employment costs	A/C	Directly coded to process using operational system based work orders for direct costs, else allocated based on assessment of time spent
Hired and contracted	A/C	Directly coded to process where possible, else allocation based on assessment of site activity by site management
Materials and consumables	A/C	Directly coded to process where possible, else allocation based on assessment of site activity by site management
Other direct costs	A/B	Direct cost to site else management judgement
General and support	See Section 6	
Scientific services	B	Allocated to wholesale US unit using samples/tests performed
Cumulo rates	B	Gross Modern Equivalent Asset Value ("GMEAV") based on US values
Third party services	B	Allocated to US unit based on activity analysis

Source: Thames Water

5.5 Further assumptions:

Power: High lift pumps have been reported as treated water distribution.

Scientific services: All tap sampling at water customers premises are allocated to treated water distribution.

Wholesale wastewater

5.6 Most costs can be directly attributed at source to a Price Control unit and US process within waste services or to sewage treatment sites and allocated to the relevant process. Table 4 below details the allocation basis and assumption for each expenditure line.

Table 4 - Wastewater service allocation basis

Expenditure line	Cost driver	Cost driver for allocation to price controls, Price Control units and US level
Power	A/B	Direct cost to process by sub metering where it exists, else allocated based on assessment of site activity by site management and Energy Management Department. Oil and gas allocated based on assessment by Energy Management Department. All savings from self-generation of power in the sludge process are allocated to Sludge Treatment.
Income treated as negative expenditure *	A	All ROC income reported in Sludge treatment, and all sludge cake sales reported in Sludge Disposals.
Service charges/discharge consents	A	Actual charge from the Environment Agency for discharge consents directly coded to process
Bulk supply/Bulk discharge	A	N/A
Other operating expenditure		
Employment costs	A/C	Directly coded to process where possible, else allocated based on assessment of time spent
Hired and contracted	A/C	Directly coded to process where possible, else allocation based on assessment of site activity by site management. Sludge disposal costs fully allocated with exception of ash disposal which is directly coded
Materials and consumables	A/C	Directly coded to process, else coded to site and allocated between sewage and sludge treatment based on site activity by site management
Other direct costs	A/B	Direct cost to site, else allocated based on management judgement depending on the type of cost reported in this category
General and support	See Section 6	
Scientific services	B	Allocated to wholesale US units based on samples/test performed
Local authority rates	B	Gross Modern Equivalent Asset Value ("GMEAV") based on US values for non-infrastructure assets. Sewer networks and pumping stations are not rateable
Third party services	B	Allocated to US unit based on activity analysis

Source: Thames Water

* Income treated as negative expenditure; includes income from sludge cake sales and Renewable Obligation Certificates ("ROC"), levy exemption certificates and the national grid reserve, in line with guidance provided in RAG 4.08.

Derivation of quantities used in unit cost information

5.7 In the tables below (5, 6, 7) the method for calculating the units used in the unit cost information are described for table 4D and 4E in the APR.

Table 5 - Derivation of quantities used to calculate unit cost information for operating expenses in table 4D

Volume MI	Derivation of units
Licensed volume available	This service includes activities related to negotiating with third parties to obtain abstraction rights and to agree charges, as well as the annual cost of the licence itself. The reported value is the total licensed volume which can be obtained by summing the total annual licence volume for each abstraction recorded daily from control rooms and Sewage Treatment Works sites. The licence volume for non-Public-Water-Supply is not included in this total. Licensed volume available in MI.
Volume abstracted	The water abstraction service includes activities related to the identification of new sources, including catchment management, licence management, management of schemes in accordance with acts of parliament and other legal obligations, and the abstraction infrastructure which may include pre-treatment where it is upstream of raw water distribution. The volume of water abstracted at each site is tracked, verified and collated for each licence line. The total volume abstracted calculated is then verified against the total volume abstraction. The total volume abstracted does not include the volume abstracted for Non-Public Water Supply. As per the guidance the volume of raw water exported and imported also needs to be accounted for. There are no raw water imports into the Thames system and therefore the volume of water exported, as reported in EA Annual Review, are subtracted from the volume of water abstracted. The volume abstracted is in megalitres ("MI").
Volume transported	The reported value is the actual volume of water transported from abstraction points to water treatment works that are not co-located at the abstraction site. This service includes the activities related to transporting the raw water or pre-treated water from the boundaries of the abstraction site/assets or pre-treatment assets through a distribution network to a treatment works , a raw water storage facility (balancing reservoirs/tanks), or to customers that require untreated or non-potable water (including third party water companies). It can also include blending of water from different sources. Where a water abstraction site and water treatment works are co-located on the same site, then the raw water effectively 'by-passes' the raw water transport stage. The activities allocated to this service include primarily the development and maintenance of the physical raw water transport network. This includes pipelines and aqueducts. The volume transported is in MI.
Average volume stored	This service includes activities related to the construction, operation and maintenance of raw water storage facilities. Average volume stored in MI. Associated activities, such as inlet flow control to prevent overfilling and outflow control (which ensures continuity of availability of supply) and planned and emergency drawdown and discharge facilities (with associated permitting) are included in this service. Activities related to determining losses due to leakage and to ensuring security of the site from contamination are also included.
Distribution input from water treatment	Distribution input is the average amount of potable water entering the distribution system and supplied to customers within the company's area of supply.
Distribution input treated water	Treated water is populated using the following calculation: Distribution input + NAVs (New appointment and variation) * 365 (days)

Source: Thames Water

Table 6 - Derivation of quantities used to calculate unit cost information for operating expenses in table 4E

Volume MI	Derivation of units
Network + Sewage collection - Foul Volume collected	This service is for the collection of foul water from customers' properties. Average volume (l/dwelling/day) is calculated on the basis of the assumption that 95% of the average household water demand (per capita consumption) of measured and unmeasured customers multiplied by the estimated average occupancy rate is the volume that is returned to the foul system. There has been no significant increase in the numbers reported since last year.
Network + Sewage collection – Surface water drainage Volume collected	This service is for the collection of surface water from exterior areas of customers' properties. The methodology consists of three main steps: (1) Estimate the area of highway draining to the public sewerage system (2) Using the sample set of modelled catchments obtain the impermeable areas and subtract the highway areas for those catchment to give the estimated impermeable area arising from properties.(3) Using the areas above calculate the storm runoff to the public sewerage system using the average rainfall depth across the Thames region for the reporting year. For this calculation, it is assumed that the 43 catchments selected are a representative cross section of Thames Water's catchments as a whole and that factoring up the contributing area from the 43 catchments based on their modelled population and the total population served by Thames Water's sewerage system is valid.
Network + Sewage collection – Highway drainage Volume collected	This service includes the activities related to the collection of surface water that runs off roads and pavements. The methodology consists of these main steps: (1) Estimate the area of highway drained to combined and surface water sewers based on the total length of surface water and combined sewers and the average width of the carriageway. (2) Estimate the area of carriageway drained to foul sewers based on the total length of foul sewers, the average width of the carriageway and the soil type. (3) Calculate the volume collected based on areas calculated above and the average rainfall depth across the Thames area for the reporting year.
Network + Sewage treatment - Sewage treatment and disposal Biochemical Oxygen Demand ("BOD")	This is the total pollution load in tonnes BOD/year that is discharged to the sewerage system. The methodology is based on calculating the connected population equivalent for each sewage works, based on resident population, non-resident population and trade effluent load and then assuming 60g/d of BOD load per person. The population equivalent calculation is based on the most recent census values and estimates of growth until the report year. There is a small reduction in BOD reported this year as compared to 17/18.
Network + Sewage treatment - Imported sludge liquor treatment Biochemical Oxygen Demand ("BOD")	The reported value is the load generated in sludge liquor volume of wastewater treated in the report year. RAG 4.07 defines this as Biochemical Oxygen Demand (BOD) in tonnes. It has been assumed that the definition includes sludge liquor generated by dewatering digested sludge and by dewatering raw sludge as part of inter-siting raw cake, incineration, lime stabilisation or prior to thermal hydrolysis. The calculation method is based on asset standard values for liquor strength (concentration) multiplied by liquor volume values from on-site reports to calculate liquor loads.
Sludge - Sludge transport Volume transported	This is the volume of sludge transported between sewage treatment works and sludge treatment centres. The calculation method is based on the movement of tankers from sewage treatment works ("STWs") to sludge treatment centres ("STCs"). All liquid sludge movements are recorded via Sludge Loggers installed at each sludge centre. These record the volume of sludge, percentage dry solids and the originating sewage treatment works. This data is automatically uploaded to a web based database. Additionally each tanker driver submits a paper ticket to the bio-recycling team; this information is loaded into the bio recycling storage database. The two systems are periodically cross-referenced to ensure consistency/accuracy. There are also raw cake movements between STCs, which are recorded in the bio recycling storage database via lorry ticket returns. Under the revised definition from Ofwat all transport associated with STW to STC are included, but STC to STC are to be excluded. Raw cake intersite is a bioresource activity and not included in this data line. As liquid raw sludge can also be moved between STCs (for example due to plant outages) this volume has to be deducted from the above total. The difference between these two volumes is the volume reported. The revised definition has resulted in a significant decrease in the number reported for this year as compared to 2017/18.
Sludge - Sludge treatment Dried solid mass treated	The mass of sludge produced is calculated from the measured volume of sludge delivered to each treatment stream at the sludge centre, multiplied by the dry solids of that sludge. The dry solids concentration is determined from samples of the feed sludge. This data is calculated from sludge mass recorded in cockpit reports for sludge put through treatment and added to raw sludge mass disposed to restoration sites and recorded in the biorecycling storage database via lorry ticket returns. There is no significant change in the reported numbers as compared to last year.
Sludge - Sludge disposal Dried solid mass disposed	The mass of sludge disposed is the mass of sludge produced plus the change in mass of sludge stored over the report year. At each site the total sludge flow data is measured and recorded daily for each of the sludge treatment streams. The dry solids concentration is determined from samples of the feed sludge. The difference between the mass of sludge disposed and the mass of sludge produced is the difference in the mass of sludge in store between the start and end of the reporting year (i.e. the difference between the stockpiled sludge on 1st April and that in storage on 31st March). The change over the year is then used to calculate the reported sludge disposed mass by multiplying the volume by an overall average percentage dry solids from historic trends. If there is an increase in sludge storage the mass of sludge disposed will be less than the mass of sludge produced. There is no significant change in the reported numbers as compared to last year.

Source: Thames Water



Table 7 - Derivation of quantities used to calculate population unit cost information for operating expenses in table 4D and 4E

Population	Resident population in billed households and billed non-households. The data inputs are (1) the Office for National Statistics ("ONS") – Mid Year Population Estimates 2015 as a base, (2) Experian trend-based population projections [Population figures at Census Output level – these are processed utilizing the extent of the 'Thames Water Sewerage 1995' operational area (spatial area from GIS defining sewage operation by the "Popsys" method (Popsys – Population system, application utilised by the business to determine current residential population and population growth/projections). (3) Hidden and transient population produced by Edge Analytics Population figures at Census Output level processed for Sewerage 1995 operational area by "Popsys" method. The three inputs above are all processed by "The Popsys method"
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Source: Thames Water

C Retail

5.8 The Customer Experience Functional Area reports the customer facing costs of water and waste services. These are reported in APR table 2C.

Allocation of CCs to retail activities

5.9 The allocation of operating expenditure between Retail household ("HH") and Retail Non-household ("NHH") is an automated process through Anaplan.

5.10 The following sections provide the basis for the production of APR table 2C.

Table 8 - Retail activities by expense

Retail activities by cost centre	Basis of allocation	Customer services										Debt management	Doubtful debts	Meter reading	Services to developers	Disconnections and reconnections	Demand-side water efficiency initiatives	Customer side leaks	Other direct costs	
		Billing	Payment, remittance and cash handling	Charitable Trust donations	Vulnerable customer schemes	Non-network customer enquiries & complaints	Network customer enquiries and complaints	Investigatory/first time visits to customers	Other customer services											
Revenue Service Centre Agents (RSC)	Based on call volumes and , FTEs by teams, and TW propositions	•	•			•	•													
RSC Resource Planning	Based on analysis of calls allocated by Rev/Ops and then Thames proposition	•	•			•	•													
Operational Contact Centre Agents (WSC)	Specific to Network/Operational Enquiries & Complaints							•												
Customer Service Continuous Improvement	Allocation based on cost centres benefiting from improvement projects	•	•			•	•				•		•							•
Document Handling Centre	Analysis of queries/complaints recorded					•	•													
High level complaints team	Volumetric data on network / non network complaints					•	•													
Head of Customer Relations (Management cost centre for Operations WSC)	Weighted average calculated for cost of managers in this cost centre based on cost centres served					•	•													•
Head of Customer Contact (Management cost centre for Operations RSC)	Weighted average calculated for cost of managers in this cost centre based on cost centres served	•	•		•	•	•				•		•							•
CGS	Other G&S. Recharge based on analysis of GSS payments made																			•
Business Intelligence Team	Based on analysis of calls allocated by Rev/Ops and then Thames proposition	•	•			•	•													
Operations Support centre Management	Allocation based on contact centre costs	•	•			•	•													
Exec Regulatory & Financial Insight & Analysis	Specific to other direct costs (General and support cost)	•	•			•	•													
LAHA Transition Project	Based on Managers Activity Summary	•				•														•
WNS Performance	Management of WNS outsourcing allocated per analysis of WNS activity	•	•			•					•		•							•
Mail house & Post room	Based on volumes of type of bills/mail	•	•								•									
Customer Communication & Design	Specific to other direct costs (service improvement, intelligence, monitoring, marketing)																			•
Customer Research & Insight	Specific to other direct costs (service improvement, intelligence, monitoring, marketing)																			•
Customer Strategy	Specific to other direct costs (General and support cost)																			•
Collection Process & Strategy	Specific to Debt Management										•									
Collection Service Delivery	Based on Managers Activity Summary for debt management & payment handling		•								•									
Billing - Outsource & Performance Management	Management of Capita outsourcing allocated per analysis of Capita activity	•	•			•					•									•
Billing Process Management Staff Costs	Management Review of FTE resource	•	•										•							
Billing and Collections - LA/HA Commissions (all HH)	Management judgement based on TW relative costs for the activities covered, and historical discussions with LA/HA's.	•	•			•					•									
Billing Service Delivery	Based on Managers assessment of FTE's	•																		
Other (HR/Central charges/Facilities)	General & Support - Specific to other direct costs																			•
Meter reading	Specific to meter reading												•							
WOC Bad Debt	Specific to Doubtful Debts												•							
WOC Commissions	Allocation across activities covered by WOCs pro-rata to their Retail Costs submissions	•	•			•					•		•							
Bad Debt Provision & Excess Credits	Specific to Doubtful Debts												•							
Customer Resolution - RSC	Based on manager's assessment of FTE					•														
Customer experience and engagement	Specific to other direct costs (service improvement, intelligence, monitoring, marketing)																			•
Digital Communications	Specific to other direct costs (General and support cost)																			•
Affordability & Vulnerability	Specific to Vulnerable Grps				•															
IT & Change -Transformation	Specific to other direct costs (General and support cost)																			•
Customer propositions	Based on Managers assessment of FTE's				•															
Customer Experience & Design	Weighted average based on cost centre allocations the managers in this cost centre are responsible for				•															•
Customer team	Based on Managers Activity Summary							•												
Senior Management Team	Based on overall % allocation of all activities in Retail	•	•		•	•	•				•		•				•	•		•
Recharged from Wholesale	Calls found not to be a network issue	•				•	•	•					•							•
Customer Assistance fund	Based on Managers Activity Summary for legacy work																			•

Source: Thames Water



- 5.11 The majority of costs reported within table 2C are directly attributable and reported within the Retail OpCo.
- 5.12 The 'Recharged from Wholesale' line in table 8 above shows those direct costs which are not managed by the Retail OpCo and are recharged from Wholesale OpCos following classification guidance in RAG 2.07

Table 9 - Retail opex allocation bases

Expenditure line	Allocation basis	Cost driver
Services to developers – managed by the Wholesale OpCos, the cost of supporting developers in administration function is recharged to Retail	Direct	n/a
Investigatory / first time visits where it is found that it is not a network issue – this cost is managed by the Wholesale team	Direct	n/a
Doubtful debts – wholesale only if relate to wholesale revenue eg bulk supplies	Direct	n/a
Demand side water efficiency - recharged to Retail unless spend incurred to meet Wholesale outcome	Direct	n/a
Disconnections / Reconnections - administration recharged to Retail	Direct	n/a
Customer side leakage – recharged to Retail unless spend incurred to meet Wholesale outcome	Direct	n/a
Other direct costs	Direct	n/a
Other business activities – regulation costs	Per Final Determination	Percentage allocation
General and support costs	Direct for Retail overheads; for Group Services G&S allocations see Section 6 below	See Section 6

Source: Thames Water

Retail Household and Retail Non-Household

- 5.13 The Company's allocation of costs into HH and NHH is compliant with the definitions below as stated in RAG 2.07.
- 5.14 **Households:** These are properties used as single domestic dwellings (normally occupied), receiving water for domestic purposes which are not factories, offices or commercial premises. These include cases where a single aggregate bill is issued to cover separate dwellings having individual standing charges (In some instances, the standing charge may be zero). The number of dwellings attracting an individual standing charge and not the number of bills should be counted. Mixed/commercial properties and multiple household properties – for example, blocks of flats having only one standing charge – should be excluded.
- 5.15 **Non-households:** These are properties receiving water for domestic purposes but which are not occupied as domestic premises, or where domestic dwellings are combined with other properties, or where properties are in multiple occupation but only have one standing charge. In this case, it is the number of bills that should be counted.



Allocation of costs to HH/NHH

5.16 Thames Water exited the NHH market in April 2017 hence there is limited NHH activity by 2019/20. Doubtful debt is captured directly with other charges allocated on relevant volume drivers

Allocation of Household costs by customer type

5.17 Following the production of APR table 2C, the Household costs are further manually allocated by customer type (APR table 4F) in proportion to average property numbers, which are reported in APR table 2F. An adjustment is made to exclude any costs that are specifically related to Water only Companies, when calculating the cost of water only customers. Similarly, an adjustment is made to exclude any costs that specifically do not relate to WOCs, when calculating the cost of waste only customers.

D Billing and collection

Percentage of income

5.18 The percentage of income that the Company outsourced for billing and collection is based on the revenue billed on behalf of the company by LAHA, who bear the risk of any non-collection of any outstanding debt. The billed value is taken from year-end LAHA Commissions Report. During the year ended 31 March 2019, LAHA billing percentage of turnover billed was 5.01%, a reduction from 2018/19 as Thames continues to proactively transfer customers to direct billing and customer service.

Bills to occupier policy

5.19 The Company only raises bills in the name of the "occupier" when it has evidence that the property is occupied but cannot confirm the name of the occupier. When the occupant is identified the bill is cancelled and rebilled in the customer's name. If the Company has not identified an occupant within 6 months the bill is cancelled and the property is classified as empty. The value of bills issued in the name of the occupier included in turnover is obtained from the 'Occupier Billing report' run by our Billing Analysts. No specific doubtful debt provision is made for bills issued in the name of the occupier at the year-end. A bad debt provision is applied to all outstanding debt, at the year-end a provision of 16.1% is applied to all debt less than one year old, which would include any debt in the name of the occupier.

Doubtful debt policy where the customer has vacated a property

5.20 Where a customer has vacated a property leaving unpaid debt, this is handled within our debt management process, credit notes are not issued to cancel any such uncollectable debt, when uncollected it is written-off as bad debt.

Bad debt provision policy

5.21 The bad debt provision is charged to operating costs to reflect the company's assessment of the risk of non-recoverability of debtors. It is calculated by applying



expected erosion rates to debts outstanding at the end of the accounting period. These collection rates take into account the age of the debt and type of debt. Higher provisioning percentages are applied to older categories of debt. Bad debt provisioning rates are updated annually to reflect the latest collection performance data from the company's billing system. All debt greater than five years old is fully provided for.

- 5.22 The bad debt provision also takes into account the recoverability of debts which will ultimately be cancelled and may or may not be rebilled, and of debts which have not yet been billed, but are part of the metered sales accrual.
- 5.23 Future expected performance (taking into account historic trends) is also used to validate our bad debt provisions to ensure that use of historic performance will not result in a material misstatement.
- 5.24 We also provide for debts from Water Only Companies, who bill for our sewage service on our behalf. Since detailed information about the debt is unavailable to us, we provide for the debt based on the historical write-offs.

Contact centre and outsourced costs

- 5.25 Contact centre agents' costs and outsourced costs are allocated to activities on the basis of the FTE requirement planning and the work packs and work streams issued to outsource partners.
- 5.26 WOC commissions costs from industry data share of the APRs are allocated across the activities they undertake, i.e. billing, payment handling, debt management and customer (non-network) queries based on the relevant weighting of those activities within the Retail operating expenses
- 5.27 LAHA commissions are allocated across the activities they undertake, i.e. billing, payment handling, debt management and customer (non-network) queries based on the relevant weighting of those activities within the Retail operating expenses, factored for the relative costs for the LA/HAs based on management analysis and judgement.

Further assumptions

- 5.28 The following assumptions have been applied consistently with the prior period.
- 5.29 Demand side water efficiency initiatives within Retail refer to the Base Line Programme ("BSWE") costs identified.
- 5.30 Local authority rates are allocated to Retail based on office occupancy of the Retail OpCo for Walnut Court in Swindon, and Kemble Court in Reading where the Operations contact centre is based.
- 5.31 Third party costs – there are no costs incurred within Retail that are classed as third party costs, therefore no costs have been reported within this line.



Section 6

Group Services expenditure

- 6.1 These costs reflect the support services functions within the company, which are detailed below in Table 10 with an explanation of cost driver used. All of these costs are classified as General and Support overheads ("G&S"). The costs allocated to the price controls are net of any recharges of costs that the Group Services functions provide to associate companies of the group and recharges to the non-appointed business of the Company. Most Group Services costs are shown within the 'Other operating expenditure' line in APR tables 2B/4D&E; none are shown as direct expenditure.
- 6.2 Included in G&S are also specific provisions for costs such as tax on benefits, pensions, fines and penalties. These are allocated directly where possible or by FTE where appropriate.
- 6.3 Management considers that the allocation assumptions and cost drivers used are appropriate and are compliant with the cost allocation principles contained in RAG 2.07.



Table 10 - Group Services

Group Services function	Activity and type of expenditure incurred	Cost driver for allocation to price controls, Price Control units and US level	Household	Non-household	Water Resources	Water Network	Wastewater Network	Sludge (Bioresources)
Executive remuneration	Total remuneration including bonuses, pensions and other benefits of Executive Directors	Direct for executives of price controls; for other executives including CEO and CFO allocated based on full time equivalent ("FTE") number of employees	15%	1%	4%	38%	32%	10%
Non-executive remuneration	Total remuneration of Non-Executive Directors	Price control allocation is split/charged to Upstream service by FTE	15%	1%	4%	38%	32%	10%
General Management	Consultancy costs managed within the Chairman, CEO and CFO's offices	Allocated directly to Price control where possible and to Upstream service by FTE	15%	1%	4%	38%	32%	10%
Finance	Internal audit, taxation, financial control, corporate finance and treasury functions. Costs include employment, audit fees and subscription fees	Allocated directly to Price control where possible and to Upstream service by FTE	15%	1%	4%	38%	32%	10%



Group Services function	Activity and type of expenditure incurred	Cost driver for allocation to price controls, Price Control units and US level	Household	Non-household	Water Resources	Water Network	Waste-water Network	Sludge (Bioresources)
Legal & secretariat	Management of outsourced legal service provider, management of board and related committees	Directly allocated to price control, Price Control unit and US by case, where possible. Otherwise allocated based on FTE	15%	1%	4%	38%	32%	10%
Human Resources	Employment costs, training costs and other HR business support costs	Allocated directly to Price control where possible and to Upstream service by FTE	15%	1%	4%	38%	32%	10%
Digital	Employment and telephony costs All other costs including management of outsourced IT support costs	Allocated directly to Price control where possible and to Upstream service by FTE	15%	1%	4%	38%	32%	10%
External Affairs (excluding Customer Assistant Fund)	This activity includes corporate communications and corporate and social responsibility.	Allocated directly to Price control where possible and to Upstream service by FTE	15%	1%	4%	38%	32%	10%
Facilities and Maintenance	This function includes office supplies, security, facilities and building maintenance costs.	Allocated to price control based on building and desk usage then allocated to Price Control unit and US based on FTE	3%	-	2%	29%	50%	16%
Health and safety	Cost of the advisors providing support to Company employees and contractors	Allocated directly to Price control where possible and to Upstream service by FTE	15%	1%	4%	38%	32%	10%
Fleet	Fleet management costs and fuel costs	Allocated to price control based on the allocation of the cost centre in which the vehicle is used. (N.B. not 100% due to non-appointed & RTC allocations)	-	-	4%	41%	40%	15%
Supply Chain	Management of outsourced supply chain provider and other supply chain related costs	Purchase –to-pay costs allocated to price controls based on estimated number of POs per business; Contract Management (“CM”) allocated to price controls based on percentage of time. Then	5%	-	4%	32%	45%	14%



		allocated to Price Control unit and US based on FTE						
Insurance premiums	Costs include public liability, employers' liability, construction and property damage	Directly allocated to price control and US by type of insurance, where possible. Otherwise allocated based on FTE	1%	-	7%	71%	16%	5%
Local Authority Rates (Offices)	Office rates	Allocated to price controls based on desk occupancy, then to Price Control unit and US based on FTE	54%	3%	3%	22%	14%	4%
Site Rates (non-head office)	Water & waste rates	Allocated directly to price controls and then US based on MEAV	-	-	5%	54%	26%	14%
Strategy & regulation (general)		Allocated to price controls 1/9 retail, 4/9 water & 4/9 waste in accordance with RAG guidance, then to US based on FTE ⁶	12%	-	4%	40%	34%	11%
Strategy & regulation (MOSL fee)		Allocated 50/50 to water and waste, then to US based on FTE	-	-	5%	45%	38%	12%

Source: Thames Water

This table represent the allocation across the appointed Price Controls

⁶ Due to fractions this will not cast to 100%

Section 7

Capex

A Allocation to Price Control and segment

- 7.1 The following section describes the methodology used in the production of the Fixed Assets (capital expenditure) lines in APR table 2D, including attributing spend across the price controls in table 2D. This follows the guidance in RAG 2.07 Section 2.
- 7.2 Table 2D excludes intangible assets, non-appointed assets, and borrowing costs. It also excludes assets held for sale. However, 2D does include assets held at fair value.
- 7.3 In table 2D gross cost, depreciation and net book value are shown in the price control of principal use only. Likewise, in accordance with RAG 4.08 line item definitions, Retail/TTT is shown recorded in the price control of principal use.
- 7.4 Historic cost fixed asset data is maintained in SAP. Every capital project is assigned a purpose code and every asset is assigned to an asset class, and is also assigned an Accounting Separation key code. The Thames Water purpose code, asset class and Accounting Separation key code structures have been rebuilt in AMP6 to reflect the regulatory 'Upstream Services' structure, so the data can be assigned to upstream services (or non-appointed) based on these codes in SAP.
- 7.5 The SAP Accounting Separation Key code on each asset in the SAP Fixed Asset Register maps the assets directly to the Table 2D Category using the mapping below.

Table 11- SAP Accounting Separation Key Mapping Table

SAP Accounting Separation Key Mapping Table (Asset Master Data) to Table 2D:		
Code	Code Description	2D Category
RET1	Retail	Retail Household
SEW1	Sewage Collection	Wastewater Network+
SEW2	Sewage Treatment	Wastewater Network+
SEW3	Sewage Site Services*	Waste*
SLU1	Sludge Treatment	Sludge
SLU2	Sludge Disposal	Sludge
WAT1	Water Resource	Water Resource
WAT2	Raw Water Distribution	Water Network+
WAT3	Water Treatment	Water Network+
WAT4	Treated Water Distribution	Water Network+
WAT5	Water Site Services*	Water*
CEN1	Central Support**	Central**
NON1	Non Appointed	<i>Excluded from 2D</i>

Source: Thames Water



- 7.6 This Accounting Separation Key Code is always assigned when the asset is created, and corresponds directly to the approved funding paper documents and project asset classes/purpose codes authorised. This ensures the vast majority of assets are directly attributed to the price control unit that has principal use, by the relevant business specialist.
- 7.7 The large bulk of tangible assets are operational assets that are assigned directly to the appropriate 2D category in the table line items as follows:



Table 12 - 2D Categories

<u>Table 2D Line items:</u>	<u>Table 2D Categories:</u>						
	Wholesale					Retail	
	Wholesale Water		Wholesale Waste		TTT	Retail Household	Retail Non-Household
<u>AMP6 Price Controls</u> <small>(price limits have been set for 2015-20)</small>	Water Resource	Water Network+	Wastewater Network+	Sludge	TTT	Retail Household	Retail Non-Household
Year-end Closing Balances (Gross Cost & Accum. Depreciation)	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Small volume of assets specifically identified by Project code and cost centres, separated out from other Waste assets.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	n/a
Additions, Disposals and Adoptions at Nil Cost (Fair Value)	As per Tables 4D & 4E methodology (Asset Class & Purpose Code basis)	As per Tables 4D & 4E methodology (Asset Class & Purpose Code basis)	As per Tables 4D & 4E methodology (Asset Class & Purpose Code basis)	As per Tables 4D & 4E methodology (Asset Class & Purpose Code basis)	As per Tables 4D & 4E methodology (although TTT not included in 4D/4E)	As per Tables 4D & 4E methodology (although Retail not included in 4D/4E)	n/a
Depreciation Charge in the Year	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	Small volume of assets specifically identified by Project code and cost centres, separated out from other Waste assets.	Mapped asset by asset from the SAP Fixed Asset Register using Accounting Separation Key codes.	n/a

Source: Thames Water

*As shown in the earlier mapping table (coded “SEW3” and “WAT5”), there are a small minority of assets which are Water or Waste site assets (for example vehicles or generators, or site admin buildings) which are specific to the Waste or Water price control but are then allocated further between the Water or Waste 2D Categories proportionally.

**Also shown in the mapping table, there are a remaining number of mainly “Management & General” assets which are coded as “CEN1” Central Support (e.g. computer hardware or fleet vehicles). Where the principal user still cannot be ascertained, and in the absence of further information, these are assigned to either the wholesale waste or wholesale water base in proportion to the asset base.

- 7.8 Specifically, where an asset is used by the whole of the business, for example headquarters buildings, the Accounting Separation code assigned is based on the principal user according to the purpose codes/asset classes approved in the funding paper. Where there is no clear principal user, the “CEN1” Central Support code can be used.
- 7.9 Where a new asset is related to an existing asset (for example an upgrade), the new asset may be assigned a different Accounting Separation code to the original asset. The code will be based on the principal user information from the purpose codes/asset classes on the new asset. The original asset will remain unaffected.
- 7.10 Assets commissioned each year are reviewed individually to provide assurance that the appropriate Accounting Separation Code has been assigned to the asset. The review is carried out by the relevant price control asset specialists (for example Sludge assets are reviewed by the Bio-Resources Ops Asset Manager). Central assets are reviewed by the



Capital and Investment team in order to assign them where possible to the most appropriate price control on a principal user basis. The whole asset base Accounting Separation data will be reviewed at key points in time, for example where there is a change in methodology, or where a change in table category definitions/ requirements occurs. This ensures the appropriate mapping is maintained.

- 7.11 Table 2D balances also include the uplift in fair value as a result of adopting IFRS Accounting Standards in April 2015. These are split across the wholesale business (mainly Water Network+ assets) according to the specific instruction at that time.
- 7.12 A handful of assets included in the table have been acquired at nil cost. This includes assets adopted, (for example Self-Lay Sewers typically installed by property developers, or Private Sewer Pumping Stations which Thames Water are now responsible for). These are directly attributed to the relevant price controls.
- 7.13 The Adjustments line shows the movements in the opening/closing balances not driven by standard additions, disposals, adoptions or depreciation activities. This would include any asset reclasses, revaluations, or accounting (e.g. IFRS) adjustments.
- 7.14 Where assets are used by more than one price control, a recharge is made from the principal user to the other price controls to reflect the usage of the asset. The recharge is calculated as an allocation of the depreciation charge since this represents the charge for using the underlying assets. The cost driver and basis for the allocations follow the same basis as operating expenses allocations per Table 12 above. These recharges are reported in APR table 2A.

B Allocation to Upstream Service (US) level

- 7.15 The following documents the process adopted by the Company to comply with Ofwat's guidance for allocation of capital expenditure across US units. The methodology detailed in this section covers the assumptions, adjustments and method of analysis applied to populate the capital expenditure sections of tables 4D and 4E.
- 7.16 As the relevant sections of these two tables require the allocation of capital expenditure to US units, the primary driver for allocation is the asset class in use on the capital project. Our asset class structure has been rebuilt for AMP6 to reflect the US structure so the data can be assigned to US immediately from the Asset Class entered into SAP. The asset class also identifies whether the asset is infrastructure or non-infrastructure and is used to split the capex line items in tables 4D/4E.
- 7.17 Assets are classed as "Base" or "Enhancement" in SAP. Base capex is reported in the "Maintaining the long-term capability of assets" lines and enhancement capex is reported in the "Other capital expenditure" lines.
- 7.18 A number of asset classes however do not map directly to the US units. An example of such an asset class would be 'Treatment works plant & machinery – 20 year life'. Depending on the specific asset in question, this could sit within any one of the following US units: Water Treatment, Sewage Treatment & Disposal or Sludge Treatment. In these cases we assign an US unit based on the purpose code(s) allocated to the project. Our purpose codes for AMP6 have similarly been rebuilt to reflect the US structure, so the vast majority of the data left unallocated from the asset class review can be assigned through the purpose codes recorded on the capital projects.



7.19 The data that then remains unallocated comprises largely management & general (“M&G”) assets. Examples include Fleet and IT assets as well as office buildings on non-operational sites. Assets produced from these projects are reviewed manually in order to assign them to the most appropriate US unit. In some cases such assets are used by multiple US units and so are deemed ‘shared use assets’.

C Allocation of shared use assets

7.20 As mentioned above, a number of these M&G assets are used by more than one US unit and indeed in a number of cases are used for the activities of more than one price control unit. In accordance with RAG 4.08, such assets have been wholly allocated in tables 4D and 4E to the price control of primary use, which in almost all cases for the Company is the wholesale wastewater price control (based on the total cost incurred by the Functional Area).

7.21 Once allocated to the price control unit of primary use, these assets are allocated across the US units according to a suitable driver. In most cases the driver used is headcount of the directly attributable employees within each of the US units, as the M&G activities are supporting the rest of the business as carried out by the staff within each operational business unit. In some cases a more bespoke allocation is possible, e.g. our main laboratory building is primarily carrying out sample testing of effluent from the sewage treatment process, and hence asset expenditure is allocated wholly to the ‘Sewage Treatment & Disposal’ US.

D Data adjustments

7.22 A number of adjustments are made to the raw data as extracted from the SAP system to ensure correct allocations are made to the US units as well as to the categories of infrastructure and non-infrastructure assets and between capital maintenance and enhancement expenditure. These adjustments were made to comply with Ofwat’s guidance on allocation. The key adjustments are explained below:

- **Sludge centres adjustment:** a manual review of all capital expenditure allocated to sludge-related US units is undertaken to ensure that only assets at our dedicated sludge centres (or assets involved in transporting sludge to our dedicated sludge centres) are allocated to these categories. Similarly, a review of allocations within the sludge-related US units is carried out to ensure correct assignment, for example, between sludge treatment and sludge disposal;
- **Sludge transport and disposal:** the sludge transport and sludge disposal US units have a very small list of assets that should be allocated to them so this adjustment is moving Capex to sludge treatment where spend has been miscoded to disposal or transport;
- **Infrastructure at treatment works sites:** a manual review is undertaken to ensure no infrastructure assets are coded to the Water Treatment or Sewage Treatment & Disposal US units as any underground pipework within treatment work sites should be classed as a civil structure;
- **Shared use assets:** an adjustment is made in line with method discussed in Section 7.1 above.



7.23 Following completion of the manual data checks, a bulk adjustment is made to include unallocated capital overheads (“OHAP”) that cannot be allocated through the steps mentioned above. As in previous years this is allocated proportionately across the relevant US.

E Allocation to infrastructure network reinforcement

7.24 For water projects infrastructure network reinforcement spend can be identified from the purpose codes in the SAP BI data. For waste, growth and developer related projects have been manually assessed to estimate the percentage of spend on network reinforcement.

F Population of tables 4D and 4E

7.25 Now that the data set has been fully allocated to US units it can be mapped into the capital expenditure sections of tables 4D and 4E by way of specific data columns. These data columns distinguish between the following criteria in order to populate tables 4D and 4E:

- infrastructure and non-infrastructure;
- capital maintenance and enhancement expenditure;
- Infrastructure network reinforcement;
- US units.

7.26 The additional lines for third party services relates to capital expenditure that enable the fulfilment of bulk supplies and other services to other monopoly suppliers and inset appointees. The infrastructure network reinforcement relates to capital expenditure for the provision of new infrastructure network assets or enhanced capacity in existing infrastructure network assets (such as water mains, tanks, service reservoirs, sewers and pumping stations), in consequence of new connections and/or new developments.

G Reconciliation

7.27 Once all of the data has been reviewed and the necessary adjustments made, a final reconciliation is carried out to ensure no capital expenditure has been omitted or included when it should not have been. Tables 4D and 4E are reconciled to management accounts (HFM) and to statutory financial statements (i.e. PP&E note).

7.28 There are a number of capital expenditure categories that are removed during the allocation process that form reconciling items between our initial data set from SAP and tables 4D and 4E. These are listed below:

- Thames Tideway Tunnel capital expenditure – this is excluded from table 4E as it is included as a separate column of data in table 2B;
- Non-regulatory capital expenditure;
- Retail capital expenditure;
- Developer Services fair value adjustments on grossed-up schemes - These assets are being built by the Developers which Thames will adopt at nil cost upon completion. Under IFRS, we need to value these assets in our Balance Sheet although no real spend to Thames. This requires an adjustment to recognise the assets in our Balance




Sheet at fair value and the related income. However, the fair value is posted to the projects/SAP as normal 'Value of Work Done' ("VoWD") journal rather than a manual GL journal. Hence, this is being removed from the Gross capex.

Section 8

Year on year capex

Table 13 - Capex Analysis- Wholesale Water ⁷

	Capex analysis - wholesale water						
	Water resources		Raw water distribution		Water treatment	Treated water distribution	Total
Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage				
FY19/20	0.0	26.6	6.7	0.0	106.7	468.5	608.5
FY18/19	0.0	21.2	8.7	0.0	105.0	387.8	522.6
YoY Movement	0.0	5.4	(2.0)	0.0	1.7	80.7	85.9
YoY Movement %	0%	25%	-23% 	0%	2%	21%	16%

Source: Thames Water

8.1 Gross Wholesale Water capital expenditure has increased by 16% to £608.5m. The main reasons are explained below.

Treated Water Distribution has increased primarily due to:

- >Higher investment in improving our distribution mains within the London and TV areas +c.£100m.
This is in line with our plan to achieve our leakage performance back to target by the end of the AMP.
- > Higher spend in Developer Led projects mainly due to new developments and growth +c.£13m;
SEMD Security has increased by +c.£8m; low flow & drought management mainly on Childrey Warren and Lower Thames +c.£2.5m.
- > This is offset by lower investment in customer meters -c.£3m; lead comm pipes - c.£4m

Raw Water Abstraction has increased primarily due to:

- > Low flow & drought management mainly on Childrey Warren and Lower Thames +c.£4m.
- > Installation of eel screens +c.£1.5m.

⁷ Percentages calculated using absolute numbers

Table 14 - Capex Analysis – Wholesale Wastewater⁸

	Capex analysis - wholesale wastewater								Total
	Sewage collection			Sewage treatment		Sludge treatment			
	Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Imported sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal	
FY19/20	203.7	10.4	1.7	150.1	0.0	1.3	45.3	4.8	417.4
FY18/19	195.0	4.4	2.3	189.1	0.0	1.5	58.8	8.4	459.5
YoY Movement	8.7	6.1	(0.6)	(38.9)	(0.0)	(0.2)	(13.5)	(3.6)	(42.1)
YoY Movement %	4%	139%	-24%	-21%	-94%	-15%	-23%	-43%	-9%

Source: Thames Water

8.2 Gross capital expenditure has reduced by 9% to £417.4m. There have however been a number of movements within the upstream service, the key items are as follows:

Sewage Treatment and Disposal has decreased by 21%. This is driven by

- > £30.9m reduction in maintaining the long-term capability of assets
- > £8.1m reduction in enhancement expenditure

Sludge Treatment has decreased by 23%. This is driven by

- > £16.0m reduction in maintaining the long-term capability of assets
- > £2.5m increase in enhancement expenditure

Sewage collection has increased by 7%. This is driven by

- > £12.9m increase in maintaining the long-term capability of network assets
- > £8.5m decrease in maintaining the long-term capability of pumping assets
- > £15.0m increase in enhancement of network assets
- > £5.5m reduction in enhancement of pumping assets

⁸ Percentages calculated using absolute numbers

Section 9

Year on year comparison of operating expenditure

A Wholesale Water

Table 15 - Wholesale Water Opex and Units

	Water Service Total	Water resources		Network+			
		Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution
Total Operating Expenditure 2019/2020 £m	473.1	19.3	45.8	4.2	-	94.3	309.5
Total Operating Expenditure 2018/19 £m	509.1	13.5	47.2	8.6	-	80.2	359.6
Variance £m	- 36.0	5.8	- 1.4	- 4.4	-	14.1	- 50.1
Variance %	-7%	43%	-3%	-51%	0%	18%	-14%
Unit		Licenced volume available	Volume abstracted	Volume transported	Average volume stored	Distribution input volume	Distribution input volume
19/20 Volume MI		1,547,572.0	1,015,689.6	92,883.5	-	966,939.9	955,223.2
19/20 Unit Cost (£/MI)		12.5	45.1	45.0	-	97.5	324.0
18/19 Volume MI		1,547,572.0	1,069,917.3	88,557.2	-	996,646.1	986,680.6
18/19 Unit Cost (£/MI)		8.7	44.1	96.9	-	80.5	364.4
Variance Volume (MI)		-	- 54,227.7	4,326.3	-	- 29,706.1	- 31,457.4
Variance Unit Cost (£/MI)		3.8	0.9	- 51.8	-	17.0	- 40.4

Source: Thames Water

Key: lower year on year costs are shown as negative values.

Commentary

Treated Water Distribution

¹The decrease in the unit cost for Treated Water distribution is driven by the decrease in year on year spend of £50.1m as explained in table 16 below.

Table 16 below explains year on year movements in operating expenses by Upstream Service level.

Table 16 - Wholesale Water Opex year on year movements in operating expenses by Upstream Service level

		Total	Water resources		Network+			
			Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution
		£m	£m	£m	£m	£m	£m	£m
	2018/19	509.1	13.5	47.2	8.6	-	80.2	359.6
Power	Mainly due to increase in power prices year on year £4.2m offset by lower demand (£1.7m) and more efficient running of site mix (£1.2m)	2.4	-	1.9	0.4	-	3.9	(3.8)
Income Treated As Negative Expenditure	Consistent	0.1	-	-	-	-	0.1	0.0
Abstraction	Consistent	-	0.2	-	-	-	-	(0.1)
Bulk Supply	Bulk supplies	0.4	-	0.5	-	-	-	(0.1)
Infrastructure renewals	Change in methodology of calculation	10.7	-	-	-	-	-	10.7
Local authority rates	Decrease is due to £23m combined rates rebates received during the year following a challenge submitted to the valuation office.	(21.4)	-	1.4	(5.9)	-	8.6	(25.5)
Third Party	Third party	0.8	-	(0.2)	-	-	0.8	0.2
Other Opex	Primarily due to:	(29.0)	5.7	(5.1)	1.1	-	0.8	(31.5)
	Capitalisation of certain leak detection costs in current year in addition to reclassification of cost between upstream service	(32.5)	5.6	(5.6)	-	-	-	(32.5)
	Employment costs - £7.3m increase in employment costs due to pay increases, severance, insurance and headcount, offset by a £2.3m decrease in bonus accruals and pension adjustments compared to prior year.	2.4	0.1	0.1	-	-	2.6	(0.4)
	Reduction in chemicals and materials due to lower demand and efficiency in the Water Supply business	(0.9)	-	-	-	-	(0.9)	-
	Reduction in plant and equipment hire due to efficiency drives in the Water Supply business	(2.7)	-	-	-	-	(2.7)	-
	Increase of fleet maintenance cost due to age and licencing	1.3	-	0.2	-	-	0.4	0.8
	Water Networks: - £7.3m additional leakage Find&Fix activity (Leakage spend up 6%), partly offset by a (£1.4m) reduced valves & sahara/aerial survey programmes - £4.0m movement in provisions, £2.0m prior year costs net of ROI, £1.2m event costs, (£0.6m) strategic review of high risk trunk mains in	3.2	-	-	-	-	-	3.2



	FY18. - (£7.6m) addition R&M capitalisation due to mix & increased enabling costs, (£0.7m) insourcing efficiency savings, £1.4m R&M mix cost pressures net of revised leakage strategies, £0.3m other - (£6.1m) reduction in Asset Management projects							
	Developer Services: reductions in compensation payments and provisions (£0.8m) and internal efficiency drive and with recharging partners (£0.8m)	(1.5)	-	-	-	-	(0.1)	(1.4)
	Other	1.6	-	0.3	1.0		1.4	(1.1)
		473.3	19.4	45.8	4.2	-	94.3	309.6

Source: Thames Water

B Wholesale Wastewater

Table 17 - Wholesale Wastewater Opex and Units

	Waste Service Total	Network+ Sewage collection			Network+ Sewage treatment		Sludge		
		Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Imported sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal
Total Operating Expenditure 2019/2020 £m	413.96	102.1	30.5	17.9	204.8	1.3	10.3	27.2	19.8
Total Operating Expenditure 2018/19 £m	427.99	113.6	33.0	17.7	209.2	0.4	7.1	26.9	20.1
Variance £m	-14.02	- 11.5	- 2.5	0.2	- 4.4	0.9	3.2	0.4	- 0.3
Variance %	-3%	-10%	-8%	1%	-2%	200%	45%	1%	-1%
Unit Description		Volume collected	Volume collected	Volume collected	Biochemical Oxygen Demand (BOD)	Biochemical Oxygen Demand (BOD)	Volume transported	Dried solid mass treated	Dried solid mass disposed
Unit Measure		MI	MI	MI	Tonnes	Tonnes	m³	ttds	ttds
19/20 Volume		717,128.3	437,335.1	228,635.4	358,650.8	8,840.1	1,489,369.4	371.6	368.4
19/20 Unit Cost (£/Unit)		142.3	69.7	78.1	571.1	147.1	6.9	73,299.7	53,795.5
18/19 Volume		707,162.2	280,329.8	154,651.6	348,693.8	8,280.2	934,262.5	373.8	373.2
18/19 Unit Cost (£/Unit)		160.6	117.8	114.3	599.9	52.4	7.6	71,899.6	53,865.3
Variance Volume		9,966.2	157,005.3	73,983.9	9,957.0	559.9	555,106.9	- 2.2	- 4.8
Variance Unit Cost (£/Unit)		- 18.3	- 48.1	- 36.1	- 28.8	94.7	- 0.7	1,400.2	- 69.9

Source: Thames Water

Key: lower year on year costs are shown as negative values.

Commentary

Surface Water Drainage and Highway Drainage: Increase in volumes due to wet weather this year coupled with decreases below driving a lower unit rate

Sludge Transport: Increase in volumes due to greater dewatering and transport into Sludge Treatment Centres rather than Sewage Treatment Works inlets.

Sludge Treatment: Increase in unit rate mostly driven by reduction in volumes

Table 18 below explains year on year movements in operating expenses by Upstream Service level:

Table 18 - Wholesale Wastewater year on year movements in operating expenses by Upstream Service level

			Network+ Sewage collection			Network+ Sewage treatment		Sludge		
			Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Imported sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal
			£m	£m	£m	£m	£m	£m	£m	£m
Prior year		428.0	113.6	33.0	17.7	209.2	0.4	7.1	26.9	20.1
Power	Increase predominantly due to £1.6m due to wet weather events and £1m due to price and volume increases within the Wastewater Networks business. [Switch between Sewage Treatment and Sludge buckets is due to an increase in consumption at Sewage treatment works but a decrease in consumption on sludge along with an increase in generation]	3.4	2.20	0.7	0.4	9.1	-	0.1	(9.1)	-
Income Treated As Negative Expenditure	Additional ROC recycle win materialised in prior year.	0.6	-	-	-	(3.2)	-	(0.2)	3.9	-
Discharge consents	Reduction due to Iron Permitting fees which were a one off in the prior year	(0.9)	0.4	(0.12)	(0.1)	(0.8)	-	-	(0.1)	-
Bulk Supply	Small decrease in bulk supplies	(0.2)	-	-	-	(0.1)	-	-	(0.1)	-
IRE	Reduction in expenditure predominantly due to the change in nature of one particular project. This project has now moved to a Capex project and therefore the corresponding Opex spend project to date has been capitalised and the adjustment made during this year.	(12.6)	(8.4)	(2.7)	(1.5)	-	-	-	-	-
Local authority	Annual increase in rates	2.4	-	-	-	(2.1)	0.1	-	4.9	0.3
Third Party	Changes in third party	(0.8)	(0.2)	-	-	(0.4)	-	-	(0.1)	-
Other Opex	Made up of	(6.1)	(5.5)	(0.4)	1.4	(6.9)	0.8	3.4	1.6	(0.5)
	Employment costs - £8.6m increase in employment costs due to rate increases, severance, insurance and	4.8	1.2	0.4	0.3	2.5	0.1	0.1	0.30	-



	headcount, offset by a £4.7m decrease in bonus accruals and pension adjustments on prior year.									
	Efficiency: (£1.6m) reduction in biorecycling and ash, (£4.7m) reduction in plant, pump and equipment hire and third party consultants due to increased management focus and drive, (£1.35m) reduction in intersiting costs	- (7.7)	- (0.3)	- (0.1)	-	- (5.3)	-	- (0.8)	- (0.3)	- (0.8)
	Fleet maintenance increased by £1.8m	1.8	0.3	0.1	0.1	0.9	-		0.4	-
	Change in CESS recharge methodology to the Non-appointed business to better reflect the costs to treat CESS	(2.4)	-	-	-	(2.4)	-	-	-	-
	WWN - prior year compensation payment and current year capex charge	(3.6)	(3.6)	-	-	-	-	-	-	-
	Developer Services - £1m change in nature of spend, remainder relates to reduction in compensation payment provision and increased efficiency through budget reduction.	(1.8)	(1.8)	-	-	-	-	-	-	-
	Other	2.8	(1.3)	(0.8)	1.2	(2.5)	0.7	4.1	1.2	0.2
	2019/20	414.1	102.1	30.5	17.8	204.9	1.3	10.4	27.3	19.8

Source: Thames Water

C Retail – Household

Table 19 - Retail Opex – Household Commentary

£m	Operating Expenditure	Customer Services	Debt Management	Doubtful Debts	Meter Reading	Services to Developer	Other Operating Expenditure
18/19	173.7	66.7	10.3	57.3	10.2	-	29.2
Increased WOC and Thames costs partially offset by LAHA commission upside as accounts brought in house	0.4	0.4	-	-	-	-	-
Covid-19 related provision	15.3	-	-	15.3	-	-	-
PY provision released in 18/19 as collection rate target achieved	5.5	-	-	5.5	-	-	-
Impact of cost transformation strategy & investment	(5.2)	-	-	(5.2)	-	-	-
Tighter contract management and strategic read scheduling, partially offset by increased metered customers	(1.1)	-	-	-	(1.1)	-	-
Increase in Spring (Billing and CRM system) Opex as project moved from Capex phase	4.8	-	-	-	-	-	4.8
Impairment of PY cost transformation project activity	8.8	-	-	-	-	-	8.8
Inflation and other	2.0	-	0.1	-	-	-	1.9
19/20	204.2	67.1	10.4	72.9	9.1	-	44.7

Source: Thames Water

Commentary

9.1 The underlying performance in 2019/20 demonstrated the focus on cost transformation, driving savings in Doubtful debts of £5.2m and Meter reading of £1.1m as well as limiting cost growth in Customer services and Debt management, whilst absorbing inflation and transformation investment.

9.2 The year on year movement in Operating costs were inflated by a few non-recurring items:

- A £15.3m provision in Doubtful Debts relating to the impact of Covid 19
- 2018/19 included a prior year doubtful debt provision release of £5.5m
- A £8.8m impairment of prior year transformation project activity
- £4.8m of Spring (Billing and CRM system) costs as the product went live and the project moved from a capex to an opex phase



D Retail – Non-Household

- 9.3 Non-Household performance demonstrated a year on year upside of £10m predominantly in Doubtful debts and other operating costs as Retail NHH activity stabilises post Thames' market exit in April 2017. Thames is engaged in a legal process with CWL about outstanding collected receivables which is not expected to be resolved until 2021/22 or later.



Section 10

Glossary of Terms

Appointed Business – The appointed business comprises the regulated activities of the Company which are activities necessary in order for the Company to fulfil the function and duties of a water and sewerage undertaker under the Water Industry Act 1991.

Cost - The actual cost to the supplier, of the goods, works or services, including a reasonable rate of return on capital employed. Unless the circumstances of the transaction provide a convincing case for the use of an alternative measure, the return on capital should be consistent with the cost of capital/net retail margin as set out in Ofwat’s final determination of 12 December 2014 (or any other determination applicable in the 2015-20 period).

Cost allocation - Cost allocation is the means by which all costs are allocated to appointed and non-appointed businesses, price control units, or specific supplies, works and services, ensuring a fair share of overheads, even where costs cannot be directly attributed to specific activities and associated services.

Cost driver - A cost driver is the factor or factors which cause cost to occur. This can be further divided between the driver that causes an activity to occur, and a driver that determines how often it occurs. Costs may vary in relation to the cost driver over the short or longer term, depending on the nature of cost concerned.

Customer side leakage (“CSL”) – leakage from customer side pipes.

FTEs - For the purposes of cost allocation, FTEs (or “full-time equivalents”) should include all full-time staff, and contractors/temporary staff directly employed. Where there is an existing contractual arrangement in place with an associate or third party for example a third party billing arrangement, FTEs will include all full-time staff, and contractors/temporary staff directly employed by the associate or third party involved in providing that service to the appointee.

Household - These are properties used as single domestic dwellings (normally occupied), receiving water for domestic purposes which are not factories, offices or commercial premises. These include cases where a single aggregate bill is issued to cover separate dwellings having individual standing charges. (In some instances, the standing charge may be zero.) The number of dwellings attracting an individual standing charge and not the number of bills should be counted. Mixed/commercial properties and multiple household properties – for example, blocks of flats having only one standing charge – should be excluded.

Non-appointed business – The non-appointed business activities of the Company are activities for which the Company as a water and sewerage undertaker is not a monopoly supplier (for example, the sale of laboratory services to an external organisation) or involves the optional use of an asset owned by the Company (for example, the use of underground assets for cable television).

Non-household – The company has exited the Non-household market, transferring ownership of its customers to Castle Water from the date of the market opening (1 April 2017). These are properties receiving water for domestic purposes but which are not occupied as domestic premises, or where domestic dwellings are combined with other properties, or where properties



are in multiple occupation but only have one standing charge. In this case, it is the number of bills that should be counted. The Company continues to incur certain operational costs which have been allocated to the non-household price control in accordance with RAG 2.07.

Ofwat – The name used to refer to the Water Services Regulation Authority (“WSRA”). The WSRA acts as the economic regulator of the water industry.

Operating Expenditure (Opex) - Payments for the day-to-day operations of our business, such as operating and maintaining our network and treatment works, paying our staff and our energy bills. This is known as operational expenditure or OPEX.

Price control units - At the 2014 price review Ofwat introduced separate binding price controls. These include wholesale water, wholesale wastewater, retail household and retail non household.

Regulatory Accounting Guidelines (“RAGs”) – The accounting guidelines for regulatory accounts issued, and amended from time to time, by Ofwat.

Retail - This term refers to any water company activities that take place once water has passed to the customer’s side of a property boundary. These include billing, payment handling, debt management, meter reading and handling billing related calls. The Company continues to perform these services for Household customers only as Non-household customers have been transferred to Castle Water from the market opening.

Third-party contributions– Grants and third-party contributions received in respect of infrastructure assets and any deferred income relating to grants and third-party contributions for non-infrastructure assets.

Water Resources Management Plan (“WRMP”) – A plan that sets out how water companies aim to meet predicted demand for water over the next 25 years, ensuring enough water is available to meet customers' needs. This is published every five years.

Wholesale - This term covers all water company activities that take place before water passes the customer’s property boundary – resources management, abstraction, treatment, distribution (water and sewer networks), sewage collection, transportation, sewage treatment, sludge disposal and energy from waste.

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