Page 1 of 31 Sheet: Cover

Α	В С	D E	F	G
1	Cover			
3	Model name:	PR19 Bill Movement Model		
4	Version number:	#N/A		
5	Filename:	#N/A		$0 + \omega + \omega$
6	Date:	10 Jul 2018		0 f Wat
7	Author:	Ofwat		
8	Author contact information:	pr19@ofwat.gsi.gov.uk		
11	Summary of model:	The model calculates the movement in avera	age residential bill (combined bill for WaSCs).	
12	-	The model draws data automatically from the		
13			he 'Company business plan presentation pro-forma'	
14		Follow link to pro-forma >>	https://www.ofwat.gov.uk/publication/company-business-plan-presentation-pro-forma/	
15	Known limitations:	These are listed below:		
16	Known innitations.			
18		Issue	Details	Model link
		Merged Companies	The model draws inputs automatically for a single PR14 model and a single PR19	Override column
			model. For companies that have merged since PR14 the model will not draw inputs	
			automatically from multiple PR14 models. Merged companies will need to calculate appropriate PR14 values outside of this model and then enter them in the Override	
			column on the InpAct sheet.	
19			column on the inpact sheet.	
21		The model has been subject to internal Ofwa	t quality assurance.	
22		The model is not a policy statement.		
\Box			020: Our final methodology for the 2019 price review" for information on proposed po	olicy.
23		Social chicara force to the Bontoning Water E	ozor our midrimodrodorogy for the zozo price review for information on proposed po	
25	Feedback:	We would welcome feedback on the PR19 bi	Il movement model. Please send any feedback to the following email address.	
26 27		pr19@ofwat.gsi.gov.uk		
27				
28 29	Error check status:	- No error checks 93 Output changes		
30		- Carpan Stanger		
31	Instructions:	A model 'User guide' is present in the model	to help the user in operating the model.	
32		Follow link >> Goto User Guide		
33				
34	Change log:			
35		Change	Details	Model link
		Wastewater Network RCV addditions	The formula to sum the RCV additions plus indexation and then index to 2017/18	WWN RCV additions plus indexation
		excluded from total	FYA CPIH deflated only picked up the RCV additions indexation. The RCV additions	
36			beginning balance was missing from the sum.	
			The formula to sum the RCV additions plus indexation and then index to 2017/18	BR RCV additions plus indexation
		total	FYA CPIH deflated only picked up the RCV additions indexation. The RCV additions	
37		Wastewater asset life linked to water asset	beginning balance was missing from the sum. The 'RCV Additions: Average Asset Life' for wastewater was incorrectly linked to the	RCV Additions: Average Asset Life - Wastewater
		life	average assset life for water on the InpActive sheet.	Traditional Tradit
38			are ago accept me for water on the imprictive sheet.	
		InpAct sheet relinked to latest financial	The PR19 financial model has been revised since the Bill Waterfall model was	InpAct
		model	published. Some lines have moved in the financial model so the InpAct sheet of the	
			Waterfall model has been re-linked to the correct lines in the latest financial model	
39			(version 14h).	
40				
42	End of sheet			

Page 2 of 31 Sheet:User Guide

User Guide

INTRODUCTION

This model will create a waterfall chart showing the main components causing the movement in bills between PR14 and PF

INITIAL SET UP

The model will automatically pick up the correct input fields when you link it to the water company financial models.

On first use of the model you will need to link to both the PR14 and PR19 financial models for your company.

- Step 1 On the Excel menu click DATA / Edit Links
- Step 2 Select the link to the PR19 model and click "Change Source"
- Step 3 Navigate to the correct PR19 financial model and select it.
- Step 4 Select the link to the PR14 model and click "Change Source"
- Step 5 Navigate to the correct PR14 financial model and select it
- Step 6 On the InpC sheet change cell F34 to either WaSC or WoC, as appropriate. The current value is shown below, follow the lir WaSC
- Step 7 Recalculate the model. Press Ctrl + Alt + F9

NAVIGATION

In order to navigate through the model the following key strokes will prove useful:

- To go to a sheet or row select a blue font cell and then either press CTRL+ [or double click
- To return To the last position press F5 + Enter
- In accordance with best practice, the model is saved with a "Manual Calculation" setting. To ensure a full recalculation pre

HOW TO SAVE A PDF COPY OF THE WATERFALL CHART

- Step 1 To save the 'Waterfall' chart in PDF format, press button "Save as PDF"
- Step 2 In the dialog box, "Enter sheet name", type Waterfall
- Step 3 In the dialog box, "Save As" change the file name if required
- Step 4 Press "Save" to save a Pdf copy of the sheet

HOW TO STORE TRACK IN TRACK SHEET

USING MACRO

To store Track in the Track sheet using the macro, follow the steps below:

- Step 1 Go to the Track sheet and press the "Store Track" button to save the track for a new case Store Track
- Step 2 A dialog box "Enter the label for the new track column" will appear, type the new track label (for example: "version 17r"), the
- Step 3 A dialog box "Enter the comment for the new track" will appear, write a brief description of the change. The description will
- Step 4 Press enter, a new track column will appear before the last stored track
- Step 5 Review the difference between stored cases and active case (col H) by selecting the stored case in cell H6.

MANUAL METHOD

To store Track in the Track sheet manually, follow the steps below:

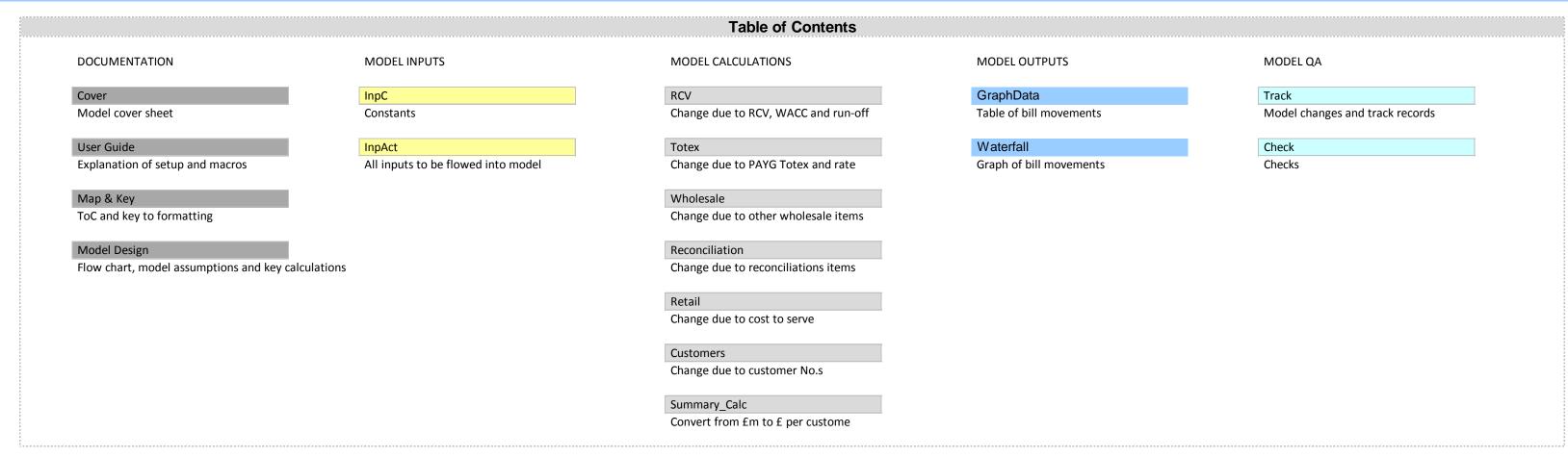
- Step 1 Select the column by pressing Ctrl + Spacebar and Copy (Ctrl + C). Then insert a new column after the last stored column
- Step 2 Select the newly inserted column (Ctrl + Spacebar) and delete the previously stored values from this column by pressing D
- Step 3 Go to active track column (H column). Select the range from H6 till 'do not delete row range end' row and Copy (Ctrl + C)
- Step 4 Paste the selected values (Alt E, S, V) in newly inserted column
- Step 5 Update 'New track name' in row 6 of newly inserted column. Then select 'New track name' from the dropdown list present in
- Step 6 Review the difference between stored cases and active case (col H) by selecting the stored case in cell H6.

Page 3 of 31 Sheet:User Guide

Page 4 of 31 Sheet:Map & Key

Map & Key

TABLE OF CONTENTS



SHEET TABS

Light Yellow Input sheets No colour (default Excel tab colour) Calculation and documentation sheets Pale Blue Key output sheets Turquoise Quality control sheets To be completed, temporary, restructured, or deleted

COLOUR

Font colour only Blue font

Imported from another sheet

Exported to another sheet (except from Input sheets) Red font

Within sheet link or calculation Black font

Font + shade combinations

Black font + Light Yellow shade

Black font + Light Grey shade on entire r Within-worksheet counter-flow Blue font + Light Grey shade on entire ro Between-worksheet counter-flow

Empty Cell with Light Grey shade Empty cells being deliberately referenced

Other

Black font + Pale Blue shade on entire rc Section separator

Light Turquoise shade Stored/dead/hard coded outputs Pre-model time line actuals Tan shade Yellow shade Work in progress / temporary Lime shade Values or logic to be reviewed Error checks & alerts Green shade OK

Gold shade Alert

ABBREVIATIONS

£ Great Britain Pound BEG Beginning BR Bio resources CALC Calculation CTS Cost to serve Million m Not available / applicable na Opex Operating expenditure PAYG Pay as you go POS Positive RCV Regulatory capital value Totex Total expenditure WACC Weighted average cost of capital WaSC Water and Sewerage company WN Water network WoC Water only company WR Water resources WWN Waste water network

LIST OF MACROS USED

Store track results Store track results

This macro helps in storing the results/outputs after any change is made in the model on "Track" sheet. These stored results then can be used to analyse the impact of any change made in the model.

Goto macro

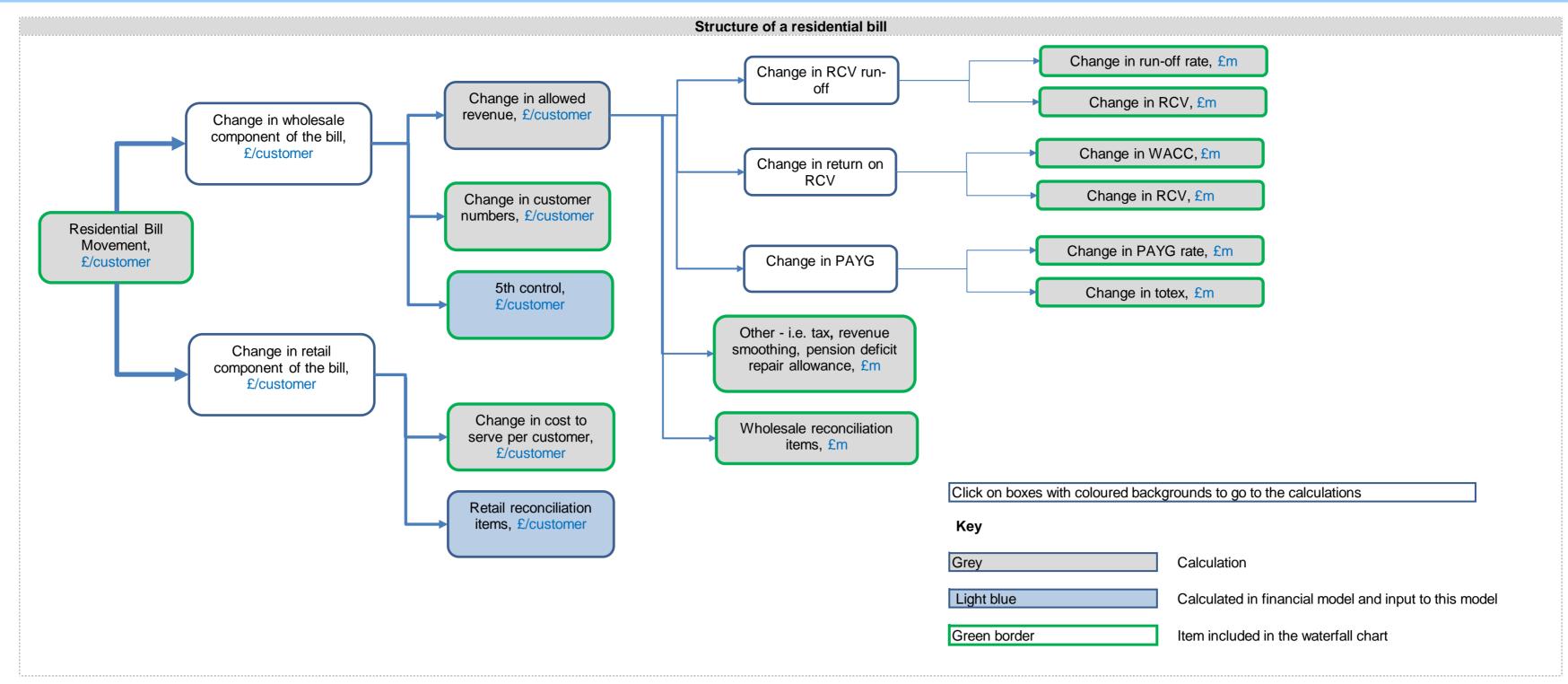
Save as PDF

Save as PDF This macro helps in saving any worksheet or chart in PDF format.

Page 5 of 31 Sheet:Model Design

Model Design

GENERAL MODEL DESIGN



ASSUMPTIONS

Price Base:

- >>> The price base for the model is 2017/18 year average CPIH deflated
- >>> 2019/20 inputs from the PR14 model are real
 In the PR14 model 'real' means 2012/13 FYA RPI deflated
 In the PR14 model retail prices were not indexed (real = nominal)
- >>> 2024/25 inputs from the PR19 model can be real or nominal (they are labelled)
 - In the PR19 model 'real' means 2017/18 FYA CPIH deflated
 - In the PR19 model retail prices are indexed
- >>> All inputs are indexed to the model price base

CALCULATIONS

<u>Calculations:</u>
wholesale components, £m

All items on the waterfall chart are in £ per customer.

- 1 > Wholesale reconciliation items are simply calculated by subtracting the sum of PR19 items from the sum of PR14 items.

 PR19 retail reconciliation items are input as £ per customer and added when the wholesale items are converted to £ per customer (see later).
- Other wholesale items are simply calculated by subtracting the sum of PR19 items from the sum of PR14 items.
- The PR19 impact of reprofiling is directly input whereas the PR14 impact of reprofiling needs to be calculated.

 The other 6 wholesale components (run-off rate/RCV, WACC/RCV, PAYG%/totex) are all calculated using the method below for PAYG Totex:
 - a Calculate the change in PAYG Totex = (PR19 PAYG Totex PR14 PAYG Totex)
 - b Calculate the PR14 PAYG Totex using the PR19 PAYG% = (PR14 Totex * PR19 PAYG%)
 - c Calculate the change in PAYG Totex due to change in PAYG% = (line b PR14 PAYG Totex)
 d Calculate the change in PAYG Totex due to change in Totex = (line a line c)
 - Goto calculation

wholesale components, £/cust

All items on the waterfall chart are in £ per customer.

The wholesale components are initially calculated in £

The wholesale components are initially calculated in £m as described above.

The method for calculating the wholesale components in £ per customer is as follows:

Sum all 8 wholesale components, £m
 For each individual wholesale component calculate its proportion of the sum, £m

Multiply this proportion by the Change in Allowed Revenue, £ per customer
 Goto calculation

wholesale allowed revenue

Calculate the Change in Allowed Revenue, £ per customer, as follows:

Calculate the Residential Bill Movement, £ per customer

Calculate the Change in Retail Cost To Serve, £ per customer
 Calculate the Change in Retail Reconciliation Items £ per customer

Calculate the Change in Retail Reconciliation Items, £ per customer
 Calculate the Change in wholesale dummy control allowed revenue

Calculate the Change in Customer Numbers, £ per customer
 The Change in Allowed Revenue is (line 1 - (line 2 + line 3 + line 4 + line 5))

<u>Goto calculation</u>

<u>customer numbers</u>

Calculate the ch

Calculate the change in the bill due to the change in customers numbers and household apportionment, £ per customer, as follows:

1 Calculate the PR19 total households as a % of the PR14 total households

2 Calculate the PR19 total nousehold apportionment as a % of the PR14 household apportionment

The change due to customer numbers is ((wholesale allowed revenue * line 2 / line 1) - wholesale allowed revenue)
 Do this separately for water and wastewater and then sum the two values

Do this separately for water and wastewater and then sum the two values Goto calculation

Title of component displayed on chart	Definition	Calculation
RCV	Change in customer bill due to a change in RCV depreciation and return on RCV caused by changing the RCV with all other components held constant.	a> Calculate the change in RCV depreciation = (PR19 RCV depreciation - PR14 RCV depreciation) b> Calculate the PR14 RCV depreciation using the PR19 RCV run-off rate = (PR14 Total RCV * PR19 RCV run-off rate) c> Calculate the change in RCV depreciation due to change in RCV run-off rate = (line b - PR14 RCV depreciation) d> Calculate the change in RCV depreciation due to change in RCV = (line a - line c) e> Repeat for return on RCV and sum.
Totex	Change in customer bill due to a change in PAYG Totex caused by changing the Totex with all other components held constant.	a> Calculate the change in PAYG Totex = (PR19 PAYG Totex - PR14 PAYG Totex) b> Calculate the PR14 PAYG Totex using the PR19 PAYG% = (PR14 Totex * PR19 PAYG%) c> Calculate the change in PAYG Totex due to change in PAYG% = (line b - PR14 PAYG Totex) d> Calculate the change in PAYG Totex due to change in Totex = (line a - line c)
PAYG%	Change in customer bill due to a change in PAYG Totex caused by changing the PAYG% with all other components held constant.	a> Calculate the change in PAYG Totex = (PR19 PAYG Totex - PR14 PAYG Totex) b> Calculate the PR14 PAYG Totex using the PR19 PAYG% = (PR14 Totex * PR19 PAYG%) c> Calculate the change in PAYG Totex due to change in PAYG% = (line b - PR14 PAYG Totex)
Run-off rate	Change in customer bill due to a change in RCV depreciation caused by changing the RCV run-off rate with all other components held constant.	a> Calculate the change in RCV depreciation = (PR19 RCV depreciation - PR14 RCV depreciation) b> Calculate the PR14 RCV depreciation using the PR19 RCV run-off rate = (PR14 Total RCV * PR19 RCV run-off rate) c> Calculate the change in RCV depreciation due to change in RCV run-off rate = (line b - PR14 RCV depreciation)
WACC	Change in customer bill due to a change in the return on RCV caused by changing the WACC with all other components held constant.	a> Calculate the change in return on RCV = (PR19 return on RCV - PR14 return on RCV) b> Calculate the PR14 return on RCV using the PR19 WACC = (PR14 Total return on RCV * PR19 WACC) c> Calculate the change in return on RCV due to change in WACC = (line b - PR14 return on RCV)
Other wholesale items	Change in customer bill due to a change in any other wholesale item with all other components held constant	Calculate the PR14 impact of reprofiling and add to the other PR14 wholesale items. Subtract the PR19 wholesale items to find the change in other wholesale items.
Reconciliations items	Change in customer bill due to a change in any reconciliation items with all other components held constant	Subtract the PR19 reconciliation items from the PR14 reconciliation items to find the change in reconciliation items.
5th control	The PR19 5th control allowed revenue.	There was no 5th control at PR14. If there is a 5th control at PR19 this will cause a rise in the bill.
retail CTS	Change in customer bill due to a change in retail CTS with all other components held constant	Sum the single service allowed revenue for both PR14 and PR19 to get the joint service allowed revenue. Do not index since in the PR14 model wholesale prices are indexed but retail prices are not indexed. Subtract the PR19 value from the PR14 value to find the change in retail allowed revenue.
customer numbers and residential apportionment	Change in customer bill due to a change in customer numbers and/or residential apportionment with all other components held constant.	a> Calculate the PR19 households as a percentage of the PR14 households b> Calculate the PR19 apportionment as a percentage of the PR14 apportionment c> Divide apportionment by households (b divided by a) to find the percentage change in allowed revenue

Page 6 of 31 Sheet:InpC

InpC

		Constant	Unit	Value	Note
NON CHANG	SEABLE INPUTS				
	Track Tolerance Level Check Tolerance Level	0.001000 0.000000	tolerance tolerance		
	Thousands in a million	1,000	thousand		
TIME					
PR14	Model period ending	31 Mar 2020	date		
PR14	Financial year ending	2020	year #		
PR19	Model period ending	31 Mar 2025	date		
PR19	Financial year ending	2025	year #		
MODEL PAR	AMETERS				
	Model 1 label Model 2 label	PR14 PR19	text text		
PR14 PR14	Company Name Company Type	TMS WaSC	text text	for info only	
PR19 PR19	Company Name Company Type	TMS WaSC	text text	for info only	
	Company Type Company type switch	WaSC - (name) = WaSC, 1 =	WoC	
	Company Type switch check		check		
INDEXATION					
Inflation fron	n 2013 FYA to 2020 FYE - RPI RPI: Financial year average 2012/13 RPI: March 2020 RPI inflate from 2013 FYA to 2020 FYE	244.68 295.38 1.2072	index index factor		[180523 App23 v0.3 factors for bill waterfall.xlsx]App23!O18
Deflation from	m 2020 FYE to 2018 FYA - CPIH				
Demacion not	CPIH: Financial year average 2017/18 CPIH: March 2020 CPIH deflate from 2020 FYE to 2018 FYA	104.22 109.63 1.0519	index index factor		[180523 App23 v0.3 factors for bill waterfall.xlsx]App23!M40 [180523 App23 v0.3 factors for bill waterfall.xlsx]App23!O33
PR14	RPI inflate from 2013 FYA to 2020 FYE CPIH deflate from 2020 FYE to 2018 FYA Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.2072 1.0519 1.1476	factor factor factor		
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor		[180523 App23 v0.3 factors for bill waterfall.xlsx]App23!T51
End of sheet					
	Thames Water added switches Switch to include some inputs from excl TTT PR14 model Switch to exclude Retail PR14 reconciliation adjustment from cost to serve change Switch to include 'Operating income' within Other wholesale items Switch to use bottom-up bill driver calculation, rather than revenue allocation	1 1 1			Switch to 1 to use alternative calculation

Page 7 of 31 Sheet:InpAct

InpAct

	Constant	Unit	Active Value	Override	Linked Value	Note
Retail allowed revenue per customer: joint services						
PR14 Average water-only bill		£	195.28		195.28	
PR14 Average wastewater-only bill		£	185.35		185.35	
PR19 WoC average bill - real	_	£	-		_	
PR19 WaSC average bill - real	-	£	378.08		378.08	
CUSTOMERS						
		000	00.44			
PR14 Water: Number of unmeasured households Water: Number of measured households		000s 000s	32.14 15.45		32.14 15.45	
PR14 Wastewater: Number of unmeasured households		000s	637.14		637.14	
PR14 Wastewater: Number of measured households with standing charge		000s	1,342.69		1,342.69	
PR14 Households connected for water and wastewater - unmetered		000s	1,693.79		1,693.79	
PR14 Households connected for water and wastewater - metered		000s	1,863.74		1,863.74	
PR19 Households connected for water only - metered	-	000s	33.75		33.75	
PR19 Households connected for sewerage only - unmetered	-	000s	553.09		553.09	
PR19 Households connected for water and sewerage - metered PR19 Households connected for water only - unmetered	-	000s 000s	2,208.90		2,208.90 18.93	
PR19 Households connected for sewerage only - metered	-	000s 000s	18.93 1,526.12		1,526.12	
PR19 Households connected for water and sewerage - unmetered	-	000s	1,501.17		1,501.17	
LLOWED REVENUE						
Retail allowed revenue per customer		C	27.00		27.00	
PR14 Retail allowed revenue per customer: single service Retail allowed revenue per customer: joint services		£	27.09 35.22		27.09 35.22	in PR14 joint service AR = single service AR * economies of scope factor (= 1.3)
Tital Trotal allowed Tovorido per adotemen jenit dervices		~	00.22		00.22	The first control of the control of
PR19 Retail allowed revenue per customer: single service - real	-	£	15.33		15.33	
PR19 Retail allowed revenue per customer: joint service - real	-	£	31.30		31.30	
PR14 Wholesale dummy control allowed revenue - real		£/cust	35.27			Thames Tideway only: value in £/customer to be input
PR19 Wholesale dummy control allowed revenue (excluding capital connection charges, other income and operating income) per residential customer - real	-	£	17.91		17.91	Thames Tideway only
Miles In a Harris of the Company of			Dominion		•	
Wholesale allowed revenue PR14 Wholesale water allowed revenue per customer excluding capital connection charges, other income and operating income		£	168.19		168.19	
PR14 Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income		£	158.26		158.26	
		_				
PR14 Revenue requirement including tax charge - real - water PR14 Phase 9: Re-profiled allowed revenue - real - water		£m	771.53 771.53		771.53 771.53	
PR14 Revenue requirement including tax charge - real - wastewater		£m £m	1,068.67		1,068.67	
PR14 Phase 9: Re-profiled allowed revenue - real - wastewater		£m	1,068.67		1,068.67	
PR14 Wholesale Water - household apportionment calculated Wholesale Wastewater - household apportionment calculated		% %	78.59% 82.00%		78.59% 82.00%	
Villolesale Wastewater - Household apportionment calculated		/0	02.0076		02.00%	
PR19 Revenue requirement with impact of reprofiling excl. tax charge - WR - nominal	-	£m	115.07		115.07	
PR19 Revenue requirement with impact of reprofiling excl. tax charge - WN - nominal	-	£m	1,005.90		1,005.90	
PR19 Revenue requirement with impact of reprofiling excl. tax charge - WWN - nominal Revenue requirement with impact of reprofiling excl. tax charge - BR - nominal	-	£m £m	905.29 203.12		905.29 203.12	
Title Revenue requirement with impact of reprehining exol. tax onlings. Bit Hominian		2111	200.12		200.12	
PR19 Re-profiled allowed revenue adjusted (excl. tax) - WR - real	-	£m	99.74		99.74	
PR19 Revenue requirement excluding tax charge - WR - real	-	£m	99.74		99.74	
PR19 Impact of re-profiling of allowed revenue - WR - real	-	£m	-			
PR19 Re-profiled allowed revenue adjusted (excl. tax) - WN - real	_	£m	871.82		871.82	
PR19 Revenue requirement excluding tax charge - WN - real	-	£m	871.82		871.82	
PR19 Impact of re-profiling of allowed revenue - WN - real	-	£m	-			
PR19 Re-profiled allowed revenue adjusted (excl. tax) - WWN - real	_	£m	784.62		784.62	
PR19 Revenue requirement excluding tax charge - WWN - real	-	£m	784.62		784.62 784.62	
PR19 Impact of re-profiling of allowed revenue - WWN - real	-	£m	-			
DD10 De profiled elleved revenue ediveted (evel tex) DD real		0	470.05		170.05	
PR19 Re-profiled allowed revenue adjusted (excl. tax) - BR - real Revenue requirement excluding tax charge - BR - real	-	£m £m	176.05 176.05		176.05 176.05	
PR19 Revenue requirement excluding tax charge - BR - real PR19 Impact of re-profiling of allowed revenue - BR - real	-	£m	-		170.05	
		~!!!				
PR19 Water resources- residential apportionment CALC	-	%	76.60%		76.60%	
PR19 Water network - residential apportionment CALC	-	%	75.57%		75.57%	
PR19 Wastewater network - residential apportionment CALC PR19 Bio resources - residential apportionment CALC	-	% %	80.43% 80.43%		80.43% 80.43%	
2.0 1030tirous Tositacitata apportioniment OALO	-	/0	00.4370		00.4376	

Page 8 of 31 Sheet:InpAct

PR14	Proportion of capex that is subject to depreciation in year of acquisition		%	50.00%	50.00%
Totex					
PR14	Totex - real - Water		£m	657.01	657.01
PR14	Totex - real - Wastewater		£m	615.23 615.23	639.42
PR14 PR14	PAYG Totex - real - Water PAYG Totex - real - Wastewater		£m £m	405.14 332.30	405.14 332.30
11(14	TATO TOLOX TOLIT Wastewater		2111	002.00	002.00
PR19	Totex - net of grants and contributions - WR (post sensi adj) - nominal	-	£m	148.76	148.76
PR19	Totex - net of grants and contributions - WN (post sensi adj) - nominal		£m	1,097.13	1,097.13
PR19 PR19	Totex - net of grants and contributions - WWN (post sensi adj) - nominal Totex - net of grants and contributions - BR (post sensi adj) - nominal	-	£m £m	951.96 144.99	951.96 144.99
PR19	Water resources: PAYG Totex - nominal	- -	£m	82.86	82.86
PR19	Water network: PAYG Totex - nominal	-	£m	469.24	469.24
PR19	Wastewater network: PAYG Totex - nominal	-	£m	413.58	413.58
PR19	Bio resources: PAYG Totex - nominal	-	£m	60.32	60.32
PR19	PAYG% - water resources - active - WR	_	%	55.70%	55.70% only used for tracking
PR19	PAYG% - water network - active - WN	-	%	42.77%	42.77% only used for tracking
PR19	PAYG% - wastewater network - active - WWN	-	%	43.45%	43.45% only used for tracking
PR19	PAYG% - bio resources - active - BR	-	%	41.60%	41.60% only used for tracking
RCV deprec	iation				
Water_	iation				
PR14	RCV as at 2015 - real - water		£m	4,064.28	4,064.28
PR14	Depreciation of 2015 RCV - real - water		£m	(114.79)	(114.79)
PR14	RCV Additions: Average Asset Life (to 1dp) - Water Non-PAYG Totex in year additions - real		years	20.18 251.87	20.18 251.87
PR14	Non-PATG Totex III year additions - Teal		£m	251.07	251.67
PR14	Non-PAYG Totex - real		£m	285.83	285.83
PR14	Non-PAYG Totex - real		£m	301.77	301.77
PR14	Non-PAYG Totex - real		£m	286.87	286.87
PR14 PR14	Non-PAYG Totex - real Non-PAYG Totex balance BEG - real		£m £m	272.18 1,146.64	272.18
PK14	NOTI-PATG TOLEX Datafice BEG - Teal		2.111	1,140.04	
<u>Wastewate</u>	<u>r</u>				
PR14	RCV as at 2015 - real - Wastewater		£m	4,451.33 4,451.33	5,321.09
PR14	Depreciation of 2015 RCV - real - wastewater		£m	(238.25) (238.25)	(242.11)
PR14 PR14	RCV Additions: Average Asset Life (to 1dp) - Wastewater Non-PAYG Totex in year additions - real		years £m	22.92 282.93 282.93	29.6 307.12
11(14	Non-1 ATO Totex in year additions - real		٤١١١	202.93	307.12
	Non-PAYG Totex - real		£m	457.71 457.71	640.71
	Non-PAYG Totex - real		£m	397.17 397.17	479.69
	Non-PAYG Totex - real Non-PAYG Totex - real		£m	407.29 336.10 407.29 336.10	464.56 394.34
	Non-PAYG Totex balance BEG - real		£m £m	336.10 336.10 1,598.27	394.34
				.,	
Water reso					
PR19	RCV CPI(H) bf balance BEG - WR - nominal	-	£m	151.16	151.16
PR19 PR19	Indexation on RCV - CPI(H) bf balance - WR - nominal RCV - CPI(H) bf depreciation - WR - nominal		£m £m	3.02 3.76	3.02 3.76
PR19	RCV CPI(H) + RPI wedge bf balance BEG - WR - nominal	- -	£m	145.45	145.45
PR19	Indexation on RCV - CPI(H) + RPI wedge bf balance - WR - nominal	<u>-</u>	£m	4.36	4.36
PR19	RCV - CPI(H) + RPI wedge bf depreciation - WR - nominal	-	£m	6.36	6.36
DD40	Mathedused to combusing off sets (storight line on reducing helence), system recovered. DOV additional demociation	Deducing halons		Carrie Ca	
PR19 PR19	Method used to apply run off rate (straight line or reducing balance) ~ water resources - RCV additions depreciation Proportion of capex that is subject to depreciation in year of acquisition - WR	Reducing balance	switch %	for info 50.00%	50.00%
PR19	RCV additions balance BEG - WR - nominal	<u>-</u>	£m	187.65	187.65
PR19	Indexation of RCV additions b/f - WR - nominal	<u>-</u>	£m	3.75	3.75
PR19	Water resources: Non-PAYG Totex - nominal	-	£m	65.90	65.90
DD40	Dun off rate CDI(II) costing MD		0/	0.440/	O 440/ anhoused for trading
PR19 PR19	Run-off rate - CPI(H) - active - WR Run-off rate - CPI(H) + RPI wedge - active - WR		% %	2.44% 4.25%	2.44% only used for tracking4.25% only used for tracking
PR19	Run-off rate - RCV additions - active - WR	- -	%	4.76%	4.76% only used for tracking
					,
Water netw					
	RCV CPI(H) bf balance BEG - WN - nominal	-	£m	2,899.45	2,899.45
	Indexation on RCV - CPI(H) bf balance - WN - nominal RCV - CPI(H) bf depreciation - WN - nominal		£m £m	57.99 108.92	57.99 108.92
	RCV CPI(H) + RPI wedge bf balance BEG - WN - nominal	-	£m	2,878.40	2,878.40
PR19	Indexation on RCV - CPI(H) + RPI wedge bf balance - WN - nominal	-	£m	86.35	86.35
PR19	RCV - CPI(H) + RPI wedge bf depreciation - WN - nominal	-	£m	72.07	72.07
PR19	Method used to apply run off rate (straight line or reducing balance) ~ water network plus CPI(H) linked - RCV additions depreciation	Reducing balance	switch	for info	
PR19 PR19	Proportion of capex that is subject to depreciation in year of acquisition - WN	Neuding balance	SWITCH %	50.00%	50.00%
PR19	RCV additions balance BEG - WN - nominal	-	£m	2,580.61	2,580.61
PR19	Indexation of RCV additions b/f - WN - nominal	-	£m	51.61	51.61
PR19	Water network: Non-PAYG Totex - nominal	-	£m	627.89	627.89
PR19	Run-off rate - CPI(H) - active - WN	_	%	3.68%	3.68%
PR19	Run-off rate - CPI(H) + RPI wedge - active - WN	- -	% %	2.43%	2.43%
	Run-off rate - RCV additions - active - WN	-	%	3.68%	3.68%
147					
Wastewate PR19	<u>r network</u> │ RCV CPI(H) bf balance BEG - WWN - nominal	_	£m	2,371.75	2,371.75
1 1119		-	AIII	2,01 1.10	2,011.10

Page 9 of 31 Sheet:InpAct

PR19 Indexation on RCV - CPI(H) bf balance - WWN - nominal RCV - CPI(H) bf depreciation - WWN - nominal	-	£m £m	47.43 112.12	47.43 112.12	
PR19 RCV CPI(H) + RPI wedge bf balance BEG - WWN - nominal	-	£m	2,304.74	2,304.74	
PR19 Indexation on RCV - CPI(H) + RPI wedge bf balance - WWN - nominal	-	£m	69.14	69.14	
PR19 RCV - CPI(H) + RPI wedge bf depreciation - WWN - nominal	-	£m	74.47	74.47	
PR19 Method used to apply run off rate (straight line or reducing balance) ~ wastewater network plus CPI(H) linked - RCV additions depreciation	Reducing balance	switch	for info	E0 000/	
PR19 Proportion of capex that is subject to depreciation in year of acquisition - WWN RCV additions balance BEG - WWN - nominal	_	% £m	50.00% 2,087.76	50.00% 2,087.76	
PR19 Indexation of RCV additions b/f - WWN - nominal	-	£m	41.76	41.76	
PR19 Wastewater network: Non-PAYG Totex - nominal	-	£m	538.38	538.38	
PR19 Run-off rate - CPI(H) - active - WWN	-	%	4.63%	4.63%	
PR19 Run-off rate - CPI(H) + RPI wedge - active - WWN PR19 Run-off rate - RCV additions - active - WWN	-	% %	3.14% 4.63%	3.14% 4.63%	
		~			
Bio resources PR19 RCV CPI(H) bf balance BEG - BR - nominal	_	£m	746.83	746.83	
PR19 Indexation on RCV - CPI(H) bf balance - BR - nominal	-	£m	14.94	14.94	
PR19 RCV - CPI(H) bf depreciation - BR - nominal RCV CPI(H) + RPI wedge bf balance BEG - BR - nominal	-	£m £m	25.59 731.86	25.59 731.86	
PR19 Indexation on RCV - CPI(H) + RPI wedge bf balance - BR - nominal	-	£m	21.96	21.96	
PR19 RCV - CPI(H) + RPI wedge bf depreciation - BR - nominal	-	£m	35.55	35.55	
PR19 Method used to apply run off rate (straight line or reducing balance) ~ bioresources - RCV additions depreciation	Reducing balance	switch	for info		
PR19 Proportion of capex that is subject to depreciation in year of acquisition - BR RCV additions balance BEG - BR - nominal		%	50.00%	50.00%	
PR19 RCV additions balance BEG - BR - nominal PR19 Indexation of RCV additions b/f - BR - nominal	-	£m £m	322.92 6.46	322.92 6.46	
PR19 Bio resources: Non-PAYG Totex - nominal	-	£m	84.68	84.68	
PR19 Run-off rate - CPI(H) - active - BR	_	%	-	-	
PR19 Run-off rate - CPI(H) + RPI wedge - active - BR	-	%	4.72%	4.72%	
PR19 Run-off rate - RCV additions - active - BR	-	%	7.80%	7.80%	
Return on RCV					
Water PR14 Average 2015 RCV - real - water		£m	4,006.88	4,006.88	
PR14 Return on 2015 RCV Flear - water		£m	144.25	144.25	
PR14 Average RCV; post 2015 additions - real - water		£m	1,126.04	1,126.04	
PR14 Return on RCV Additions - real - water		£m	40.54	40.54	
Mostowator			Control Contro		
Wastewater PR14 Average 2015 RCV - real - Wastewater		£m	4,332.21 4,332.21	5,200.03	
PR14 Return on 2015 RCV Bf - real - Wastewater		£m	155.96 155.96	187.20	
PR14 Average RCV; post 2015 additions - real - Wastewater		£m	1,554.54	1,950.34	
PR14 Return on RCV Additions - real - Wastewater		£m	55.96 55.96	70.21	
Water resources					
PR19 Average of RCV - CPI(H) bf - WR - nominal	-	£m	152.30	152.30	
PR19 WACC real on RCV - CPI(H) bf and additions - WR PR19 Return on RCV - CPI(H) bf - WR - nominal	-	% £m	3.30% 5.03	3.30% only used 5.03	d for tracking
PR19 Average of RCV - CPI(H) + RPI wedge bf - WR - nominal PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - WR	-	£m %	146.64 2.30%	146.64 2.30% only used	1 for tracking
PR19 Return on RCV - CPI(H) + RPI wedge bi and additions - WR	-	£m	3.37	3.37	TIOI tracking
DD10 Average of BCV nest 2020 additions. W.D. naminal		Cm	219.01	240.04	
PR19 Average of RCV post 2020 additions - WR - nominal WACC real on RCV - CPI(H) bf and additions - WR	-	£m %	3.30%	219.01 3.30%	
PR19 Return on RCV additions - WR - nominal	-	£m	7.24	7.24	
PR19 Average of RCV - CPI(H) other adjustments balance - WR - nominal	_	£m	-	- Non-depi	eciated adjustment to RCV
PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - WR	-	%	2.30%	2.30%	
PR19 Return on RCV - CPI(H) other adjustments - WR - nominal	-	-	-	-	
Water network					
PR19 Average of RCV - CPI(H) bf - WN - nominal PR19 WACC real on RCV - CPI(H) bf and additions - WN		£m %	2,902.98	2,902.98 3.30% only used	1 for tracking
PR19 Return on RCV - CPI(H) bf - WN - nominal	-	£m	95.91	95.91	Tor tracking
PR19 Average of RCV - CPI(H) + RPI wedge bf - WN - nominal		£m	2,928.72	2,928.72	
PR19 WACC on RCV - CPI(H) + RPI wedge bi - WN - Hollinal	-	%	2.30%	2,926.72 2.30% only used	d for tracking
PR19 Return on RCV - CPI(H) + RPI wedge bf - WN - nominal	-	£m	67.39	67.39	-
PR19 Average of RCV post 2020 additions - WN - nominal	-	£m	2,891.91	2,891.91	
PR19 WACC real on RCV - CPI(H) bf and additions - WN	-	%	3.30%	3.30%	
PR19 Return on RCV additions - WN - nominal	-	£m	95.55	95.55	
PR19 Average of RCV - CPI(H) other adjustments balance - WN - nominal	-	£m	-	•	reciated adjustment to RCV
PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - WN	-	%	2.30%	2.30%	
PR19 Return on RCV - CPI(H) other adjustments - WN - nominal	-	£m	-	-	
Wastewater network DD40 Average of DCV/ CDI/(I) bf WWWI nominal		•	0.000.40	0.000.40	
PR19 Average of RCV - CPI(H) bf - WWN - nominal	-	£m	2,363.12	2,363.12	

Page 10 of 31 Sheet:InpAct

PR19 WACC real on RCV - CPI(H) bf and additions - WWN PR19 Return on RCV - CPI(H) bf - WWN - nominal	<u>-</u> -	% £m	3.30% 78.08	3.30% only used for tracking 78.08
PR19 PR19 Average of RCV - CPI(H) + RPI wedge bf - WWN - nominal WACC on RCV - CPI(H) + RPI wedge bf and additions - WWN PR19 Return on RCV - CPI(H) + RPI wedge bf - WWN - nominal	- - -	£m % £m	2,336.65 2.30% 53.77	2,336.65 2.30% only used for tracking 53.77
PR19 PR19 PR19 Average of RCV post 2020 additions - WWN - nominal WACC real on RCV - CPI(H) bf and additions - WWN Return on RCV additions - WWN - nominal	- - -	£m % £m	2,343.12 3.30% 77.41	2,343.12 3.30% 77.41
PR19 Average of RCV - CPI(H) other adjustments balance - WWN - nominal WACC on RCV - CPI(H) + RPI wedge bf and additions - WWN PR19 Return on RCV - CPI(H) other adjustments - WWN - nominal	- - -	£m % £m	2.30%	- Non-depreciated adjustment to RCV 2.30%
Bio resources PR19 Average of RCV - CPI(H) bf - BR - nominal PR19 WACC real on RCV - CPI(H) bf and additions - BR Return on RCV - CPI(H) bf - BR - nominal	-	£m % £m	748.98 3.30% 24.75	748.98 3.30% only used for tracking 24.75
PR19 Average of RCV - CPI(H) + RPI wedge bf - BR - nominal WACC on RCV - CPI(H) + RPI wedge bf and additions - BR Return on RCV - CPI(H) + RPI wedge bf - BR - nominal	- - -	£m % £m	736.04 2.30% 16.94	736.04 2.30% only used for tracking 16.94
PR19 Average of RCV post 2020 additions - BR - nominal WACC real on RCV - CPI(H) bf and additions - BR Return on RCV additions - BR - nominal		£m % £m	357.23 3.30% 11.80	357.23 3.30% 11.80
PR19 PR19 Average of RCV - CPI(H) other adjustments balance - BR - nominal WACC on RCV - CPI(H) + RPI wedge bf and additions - BR Return on RCV - CPI(H) other adjustments - BR - nominal	- - -	£m % £m	2.30%	- Non-depreciated adjustment to RCV 2.30%
Other wholesale items PR14 PR14 PR14 Other income (incl 3rd party income) - real - water		£m £m £m	9.07 (5.89) (5.89)	- plus this 9.07 plus this (5.54) less this
PR14 Tax charge - real - wastewater PR14 Pension deficit repair allowance - real - wastewater Other income (incl 3rd party income) - real - wastewater		£m £m £m	8.34 (11.37) (11.37)	- plus this 8.34 plus this (11.10) less this
PR19 Wholesale Water resources service defined benefit pension deficit recovery per IN13/17 - real PR19 Total direct procurement from customers - infrastructure cost - WR - real PR19 Tax WR - real PR19 Third party & principle service revenues - WR - real	- - -	£m £m £m £m	(3.85)	 plus this plus this plus this (3.85) less this
PR19 Wholesale Water network service defined benefit pension deficit recovery per IN13/17 - real PR19 Total direct procurement from customers - infrastructure cost - WN - real Tax WN - real	- - -	£m £m £m		plus thisplus thisplus this
PR19 Third party & principle service revenues - WN - real PR19 Wholesale Wastewater network service defined benefit pension deficit recovery per IN13/17 - real PR19 Total direct procurement from customers - infrastructure cost - WWN - real PR19 Tax WWN - real	-	£m £m £m £m	(5.08)	 (5.08) less this plus this plus this plus this
PR19 Third party & principle service revenues - WWN - real PR19 Wholesale Bio resources service defined benefit pension deficit recovery per IN13/17 - real PR19 Total direct procurement from customers - infrastructure cost - BR - real	- - -	£m £m	(10.08)	(10.08) less this - plus this - plus this
PR19 Tax BR - real Third party & principle service revenues - BR - real RECONCILIATIONS	-	£m £m	(0.70)	- plus this (0.70) less this
<u>Water</u>		_		
PR14 SIM adjustment (+ or -) - real - Water Opex incentive allowance (+ only) - real - Water CIS adjustment (+ or -) - real - Water		£m £m £m	(8.18)	(8.18) - (3.23)
PR14 Clos adjustment (+ or -) - real - Water PR14 Equity injection clawback (- only) - real - Water		£m £m	8.15	8.15
PR14 Tax refinancing benefit clawback (- only) - real - Water Outcome delivery incentive (+ or -) - real - Water		£m £m	-	- -
PR14 PR14 Totex menu additional income (+ or -) - real - Water Other tax adjustments (+ or -) Value Chosen - real - Water Other adjustments (+ or -) Value Chosen - real - Water		£m £m £m	3.84	3.84 - -
Wastewater PR14 SIM adjustment (+ or -) - real - Wastewater		£m	(8.66)	(8.66)
PR14 Opex incentive allowance (+ only) - real - Wastewater CIS adjustment (+ or -) - real - Wastewater PR14 PCM adjustment (+ or -) - real - Wastewater		£m £m	(15.50)	- (15.50)
PR14 RCM adjustment (+ or -) - real - Wastewater Equity injection clawback (- only) - real - Wastewater PR14 Tax refinancing benefit clawback (- only) - real - Wastewater		£m £m £m	14.73	14.73 - -
PR14 Outcome delivery incentive (+ or -) - real - Wastewater PR14 Tax reminancing benefit clawback (- only) - real - Wastewater Totex menu additional income (+ or -) - real - Wastewater		£m £m	1.49	1.60

Page 11 of 31 Sheet:InpAct

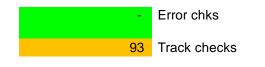
Other adjustments (+ or -) Value Chosen - real - Wastewater	£m £m	-	6.785
L_R19 Residential retail revenue adjustment per customer - real	- £/cust	(3.53)	(3.53)
<u>r</u>			
PR19 Water resources - End of Period ODIs (+ or -) Value Chosen - active - real	- £m	-	-
PR19 Water resources - In period ODIs (+ or -) Value Chosen - active - real	- £m	-	-
PR19 Water resources - Totex (+ or -) Value Chosen - active - adjusted - real	- £m	-	-
PR19 Water resources - WRFIM (+ or -) Value Chosen - active - adjusted - real	- £m	-	-
PR19 Water resources - Residential retail mechanism (+ or -) Value Chosen - active - real	- £m	-	-
PR19 Water resources - Blind year (+ or -) Value Chosen - active - real	- £m	-	-
PR19 Water resources - Water trading incentive (+ or -) Value Chosen - active - real	- £m	0.18	0.18
PR19 Water network - End of Period ODIs (+ or -) Value Chosen - active - real	- £m	(15.34)	(15.34)
PR19 Water network - In period ODIs (+ or -) Value Chosen - active - real	- £m	-	-
PR19 Water network - Totex (+ or -) Value Chosen - active - adjusted - real	- £m	(2.01)	(2.01)
PR19 Water network - WRFIM (+ or -) Value Chosen - active - adjusted - real	- £m	12.60	12.60
PR19 Water network - Residential retail mechanism (+ or -) Value Chosen - active - real	- £m	-	-
PR19 Water network - Blind year (+ or -) Value Chosen - active - real	- £m	(0.30)	(0.30)
PR19 Water network - Water trading incentive (+ or -) Value Chosen - active - real	- £m	-	-
Stewater PR10 Westewater network End of Period CDIs (Lor.) Value Chasen active real	Cm.	(2.40)	(2.40)
PR19 Wastewater network - End of Period ODIs (+ or -) Value Chosen - active - real Wastewater network - In period ODIs (+ or -) Value Chosen - active - real	- £m - £m	(2.40)	(2.40)
PR19 Wastewater network - In period ODIs (+ or -) Value Chosen - active - real PR19 Wastewater network - Totex (+ or -) Value Chosen - active - real	- £m - £m	0.66	0.66
PR19 Wastewater network - Totex (+ or -) Value Chosen - active - adjusted - real PR19 Wastewater network - WRFIM (+ or -) Value Chosen - active - adjusted - real	- £m - £m	4.08	4.08
PR19 Wastewater network - WRFIM (+ or -) Value Chosen - active - adjusted - real PR19 Wastewater network - Residential retail mechanism (+ or -) Value Chosen - active - real	- £m - £m	4.00	4.00
PR19 Wastewater network - Residential retail mechanism (+ or -) value Chosen - active - real	0	(5.53)	(5.53)
PR19 Wastewater network - Bind year (+ or -) Value Chosen - active - real PR19 Wastewater network - Water trading incentive (+ or -) Value Chosen - active - real	- £m - £m	(5.53)	(0.55)
PR19 Wastewater network - Water trading incentive (+ or -) Value Chosen - active - real PR19 Bio resources - End of Period ODIs (+ or -) Value Chosen - active - real	- £m	-	
PR19 Bio resources - In period ODIs (+ or -) Value Chosen - active - real	- £m	-	_
PR19 Bio resources - Totex (+ or -) Value Chosen - active - real	- £m	_	
PR19 Bio resources - WRFIM (+ or -) Value Chosen - active - adjusted - real	- £m	_	
PR19 Bio resources - Residential retail mechanism (+ or -) Value Chosen - active - real	- £m	_	
PR19 Bio resources - Blind year (+ or -) Value Chosen - active - real	- £m	_	_
PR19 Bio resources - Water trading incentive (+ or -) Value Chosen - active - real	- £m		
R14 TTT bill analysis Extract from PR14 TMS TTT IP financial model (2012/13 prices) Extract from PR14 TMS TTT IP financial model (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Check		158.26 27.09 185.35	Exec summary N29 Exec summary N32
extract from PR14 TMS financial model (2012/13 prices)			
		125.50	Even average and N20
Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income			Exec summary N29
Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service			Exec summary N29 Exec summary N32
Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP)		26.75 152.24	Exec summary N32 Exec summary N32
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP)		26.75	· · · · · · · · · · · · · · · · · · ·
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices)		26.75 152.24	Exec summary N32
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income		26.75 152.24 32.76	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service		26.75 152.24 32.76 0.34	Exec summary N32
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income		26.75 152.24 32.76	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service		26.75 152.24 32.76 0.34	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated		26.75 152.24 32.76 0.34 33.11	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) elta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP)		26.75 152.24 32.76 0.34 33.11 1.1476 37.60	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) elta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices)	B CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) elta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18	B CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33)	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18)	B CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27	Exec summary N32 TTT price control, including TTT revenue pass-through to IP
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 operating income) Water	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Pelta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 operating income)	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27	TTT price control, including TTT revenue pass-through to IP Included in Retail delta
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) elta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 perating income Water Wastewater	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27)	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) lelta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 prices) Income Water Wastewater Wastewater Totex - real - Wastewater	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27)	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Operating income Water Wastewater Nater Wastewater Nater - real - Wastewater RCV as at 2015 - real - Wastewater	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27)	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Deparating income Water Wastewater Input data excluding TTT Totex - real - Wastewater RCV as at 2015 - real - Wastewater Depreciation of 2015 RCV - real - wastewater	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25)	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Operating income Water Wastewater Input data excluding TTT Totex - real - Wastewater RCV as at 2015 - real - Wastewater RCV as at 2015 - real - Wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater	B CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Operating income Water Wastewater Input data excluding TTT Totex - real - Wastewater RCV as at 2015 - real - Wastewater Pepreciation of 2015 RCV - real - wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater Non-PAYC Totex in year additions - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Deparating income Water Wastewater Nort real - Wastewater RCV as at 2015 - real - Wastewater Depreciation of 2015 RCV - real - wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater Nort-PAYG Totex in year additions - real Non-PAYG Totex - real Non-PAYG Totex - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer; single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer; single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Deparating income Water Wastewater Input data excluding TTT Totex - real - Wastewater RCV as at 2015 - real - Wastewater RCV as at 2015 - real - Wastewater RCV as at 2015 - real - wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater Non-PAYG Totex in year additions - real Non-PAYG Totex - real Non-PAYG Totex - real Non-PAYG Totex - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71 397.17	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Pelta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 **Operating** income** Water Water Wastewater **Poput data** excluding TTT Totex - real - Wastewater RCV as at 2015 - real - Wastewater Depreciation of 2015 RCV - real - wastewater Popreciation of 2015 RCV - real - wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater Non-PAYG Totex in year additions - real Non-PAYG Totex - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71 397.17 407.29	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) letta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Input data excluding TTT Totex - real - Wastewater RCV as at 2015 - real - Wastewater RCV as at 2015 - real - Wastewater RCV as at 2015 - real - wastewater RCV Additions: & Average Asset Life (to 1dp) - Wastewater Non-PAYG Totex - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71 397.17 407.29 336.10	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Deparating income Water Wastewater Non-PAYG Totex - real - Wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater RCV Additions: Average Asset Life (to 1dp) - Wastewater Non-PAYG Totex in year additions - real Non-PAYG Totex - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71 397.17 407.29 336.10 4,332.21	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Petra (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer numbers change (2017/18 **Poperating income** Water Wastewater **Poperating income** Water Wastewater **Poperation of 2015 RCV - real - Wastewater	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71 397.17 407.29 336.10 4,332.21 155.96	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model
Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Delta (2012/13 prices) Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income Retail allowed revenue per customer: single service Total Wastewater single service bill, including TTT (TWUL and IP) Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income (2017/18 CPIH prices) Exclude element relating to customer numbers Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income, excluding customer number change (2017/18 Operating income Water Wastewater Input data excluding TTT Totex - real - Wastewater Excluding 2015 - real - Wastewater Depreciation of 2015 RCV - real - wastewater Depreciation of 2015 RCV - real - wastewater RCV Additions: Average Asset Life (to 1cp) - Wastewater Non-PAYG Totex - real	3 CPIH prices)	26.75 152.24 32.76 0.34 33.11 1.1476 37.60 (2.33) 35.27 (0.35) (0.27) (0.27) 615.23 4,451.33 (238.25) 22.92 282.93 457.71 397.17 407.29 336.10 4,332.21	TTT price control, including TTT revenue pass-through to IP Included in Retail delta Linked to PR14 model

Page 12 of 31 Sheet:InpAct

Totex menu additional income (+ or -) - real - Wastewater Other adjustments (+ or -) Value Chosen - real - Wastewater 1.49

Page 13 of 31 Sheet:RCV

RCV



Constant	Unit	Value	Note
Constant	Unit	value	Note

WHOLESALE: (Change in bill due t	o change in RCV	DEPRECIATION

WHOLESALE: Change in bill due to change in RCV DEPRECIATION			
This section calculates the components causing the change in RCV depreciation Water			
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - water PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - water	1.1476 -	factor £m £m	4,064.28 4,664.29
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - water PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Water	1.1476 -	factor £m £m	(114.79) (131.73)
PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Water POS Calculate depreciation on RCV additions using the equation in the PR14 model		£m	131.73
PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Water		% £m £m	50.00% 251.87 125.94
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Non-PAYG Totex depreciated in year of acquisition - Water PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Water	1.1476 - -	factor £m £m £m	125.94 1,146.64 1,460.45
PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Water PR14 RCV Additions: Average Asset Life (to 1dp) - Water PR14 Non-PAYG Totex depreciation - 2017/18 year average CPIH deflated - Water		£m years £m	1,460.45 20.2 72.36
PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - water PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Water PR14 RCV - 201718 year average CPIH deflated - Water	- -	£m £m £m	4,664.29 1,460.45 6,124.74
PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Water POS PR14 Non-PAYG Totex depreciation - 2017/18 year average CPIH deflated - Water PR14 RCV depreciation - 201718 year average CPIH deflated - Water		£m £m £m	131.73 72.36 204.09
PR19_			
PR19 Water resources PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	-
PR19 RCV CPI(H) bf balance BEG - WR - nominal PR19 Indexation on RCV - CPI(H) bf balance - WR - nominal PR19 RCV CPIH BEG plus indexation - WR - 2017/18 year average CPIH deflated	- -	£m £m £m	151.16 3.02 133.63
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV - CPI(H) bf depreciation - WR - nominal	1.1538	factor £m	- 3.76
PR19 RCV CPIH depreciation - WR - 2017/18 year average CPIH deflated		£m	3.26
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV CPI(H) + RPI wedge bf balance BEG - WR - nominal PR19 Indexation on RCV - CPI(H) + RPI wedge bf balance - WR - nominal PR19 RCV CPIH + RPI wedge BEG plus indexation - WR - 2017/18 year average CPIH deflated	1.1538 - -	factor £m £m £m	145.45 4.36 129.85
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV - CPI(H) + RPI wedge bf depreciation - WR - nominal PR19 RCV CPIH + RPI wedge depreciation - WR - 2017/18 year average CPIH deflated	1.1538 -	factor £m £m	- 6.36 5.52
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 Water resources: Non-PAYG Totex - nominal PR19 Water resources: Non-PAYG Totex - 2017/18 year average CPIH deflated	1.1538	factor £m £m	- 65.90 57.12
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV additions balance BEG - WR - nominal	1.1538	factor £m	- 187.65
PR19 Indexation of RCV additions b/f - WR - nominal PR19 RCV additions BEG plus Indexation - WR - 2017/18 year average CPIH deflated	-	£m £m	3.75 165.89
Calculate depreciation on RCV additions using the equations in the PR19 model PR19 Method used to apply run off rate (straight line or reducing balance) ~ water resources - RCV additions depre	Reducing balance	switch	for info
PR19 Proportion of capex that is subject to depreciation in year of acquisition - WR PR19 Water resources: Non-PAYG Totex - 2017/18 year average CPIH deflated PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WR	- -	% £m £m	50.00% 57.12 28.56
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WR PR19 Run-off rate - RCV additions - active - WR PR19 RCV post 2020 additions depreciation - 2017/18 year average CPIH deflated -WR	- -	£m % £m	28.56 4.76% 1.36
PR19 RCV additions BEG plus Indexation - WR - 2017/18 year average CPIH deflated	-	£m	165.89
PR19 Run-off rate - RCV additions - active - WR PR19 RCV additions plus Indexation depreciation - 2017/18 year average CPIH deflated - WR	-	% £m	4.76% 7.90
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WR PR19 RCV additions BEG plus Indexation - WR - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation - WR - 2017/18 year average CPIH deflated		£m £m £m	28.56 165.89 194.45
PR19 RCV post 2020 additions depreciation - 2017/18 year average CPIH deflated -WR	-	£m	1.36
PR19 RCV additions plus Indexation depreciation - 2017/18 year average CPIH deflated - WR PR19 RCV post 2020 additions plus indexation depreciation - WR - 2017/18 year average CPIH deflated	-	£m £m	7.90 9.26
PR19 Water network PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	
PR19 RCV CPI(H) bf balance BEG - WN - nominal PR19 Indexation on RCV - CPI(H) bf balance - WN - nominal		£m	2,899.45 57.99
PR19 RCV CPIH BEG plus indexation - WN - 2017/18 year average CPIH deflated		£m	2,563.237
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV - CPI(H) bf depreciation - WN - nominal PR19 PR19 RCV CPIH depreciation - WN - 2017/18 year average CPIH deflated	1.1538 -	factor £m £m	108.92 94.40
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	- 2.878.40
PR19 RCV CPI(H) + RPI wedge bf balance BEG - WN - nominal PR19 Indexation on RCV - CPI(H) + RPI wedge bf balance - WN - nominal PR19 RCV CPIH + RPI wedge BEG plus indexation - WN - 2017/18 year average CPIH deflated	-	£m £m £m	2,878.40 86.35 2,569.574
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV - CPI(H) + RPI wedge bf depreciation - WN - nominal PR19 PR19 RCV CPIH + RPI wedge depreciation - WN - 2017/18 year average CPIH deflated	1.1538	factor £m £m	72.07 62.46
PR19 PR19 RCV CPIH + RPI wedge depreciation - WN - 2017/18 year average CPIH deliated PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	UZ.40 -
PR19 Water network: Non-PAYG Totex - nominal PR19 Water network: Non-PAYG Totex - 2017/18 year average CPIH deflated	- -	£m £m	627.89 544.20
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV additions balance BEG - WN - nominal	1.1538	factor £m	- 2,580.61
PR19 Indexation of RCV additions b/f - WN - nominal PR19 RCV additions BEG plus Indexation - WN - 2017/18 year average CPIH deflated	-	£m £m	51.61 2,281.36

Page 14 of 31 Sheet:RCV

Calculate depreciation on RCV additions using the equations in the PR19 model PR19 Method used to apply run off rate (straight line or reducing balance) ~ water network plus CPI(H) linked - RC\	Reducing balance	switch	for info
PR19 Proportion of capex that is subject to depreciation in year of acquisition - WN PR19 Water network: Non-PAYG Totex - 2017/18 year average CPIH deflated PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WN	- -	% £m £m	50.00% 544.20 272.10
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WN PR19 Run-off rate - RCV additions - active - WN PR19 RCV post 2020 additions depreciation - 2017/18 year average CPIH deflated - WN	<u>-</u> -	£m % £m	272.10 3.68% 10.02
PR19 RCV additions BEG plus Indexation - WN - 2017/18 year average CPIH deflated PR19 Run-off rate - RCV additions - active - WN PR19 RCV additions BEG plus Indexation depreciation - 2017/18 year average CPIH deflated - WN	-	£m % £m	2,281.36 3.68% 84.02
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WN PR19 RCV additions BEG plus Indexation - WN - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions - WN - 2017/18 year average CPIH deflated	-	£m £m £m	272.10 2,281.36 2,553.46
PR19 RCV post 2020 additions depreciation - 2017/18 year average CPIH deflated - WN PR19 RCV additions BEG plus Indexation depreciation - 2017/18 year average CPIH deflated - WN PR19 RCV post 2020 additions plus indexation depreciation - WN - 2017/18 year average CPIH deflated	-	£m £m £m	10.02 84.02 94.04
Sum the components for water resources and water network PR19 RCV CPIH BEG plus indexation - WR - 2017/18 year average CPIH deflated PR19 RCV CPIH + RPI wedge BEG plus indexation - WR - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation - WR - 2017/18 year average CPIH deflated PR19 RCV CPIH BEG plus indexation - WN - 2017/18 year average CPIH deflated	- - - -	£m £m £m	133.63 129.85 194.45 2,563.24
PR19 RCV CPIT BEG plus indexation - WN - 2017/16 year average CPIT deflated PR19 RCV post 2020 additions - WN - 2017/18 year average CPIH deflated PR19 RCV balance - Water	- -	£m £m £m £m	2,569.57 2,553.46 8,144.19
PR19 RCV CPIH depreciation - WR - 2017/18 year average CPIH deflated PR19 RCV CPIH + RPI wedge depreciation - WR - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation depreciation - WR - 2017/18 year average CPIH deflated PR19 PR19 RCV CPIH depreciation - WN - 2017/18 year average CPIH deflated PR19 PR19 RCV CPIH + RPI wedge depreciation - WN - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation depreciation - WN - 2017/18 year average CPIH deflated PR19 RCV depreciation - Water	- - - - -	£m £m £m £m £m £m	3.26 5.52 9.26 94.40 62.46 94.04 268.94
Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV depreciation PR14 RCV depreciation - 201718 year average CPIH deflated - Water PR19 RCV depreciation - Water Change in RCV depreciation - Water	- -	£m £m £m	204.09 268.94 64.84
Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for WR and WN) PR19 RCV balance - Water PR19 RCV depreciation - Water PR19 PR19 Weighted average run-off rate - water	-	£m £m %	8,144.19 268.94 3.30%
PR14 RCV - 201718 year average CPIH deflated - Water PR19 PR19 Weighted average run-off rate - water PR14 RCV depreciation with PR19 run-off rate - Water	-	£m % £m	6,124.74 3.30% 202.25
Subtract the 'PR14 RCV depreciation with PR19 run-off rate' from the PR14 RCV depreciation to find the change in the RC PR14 RCV depreciation - 201718 year average CPIH deflated - Water PR14 RCV depreciation with PR19 run-off rate - Water Change in RCV depreciation due to change in run-off rate - Water	CV depreciation due - -		
Subtract the impact of the change in run-off rate from the actual change in RCV depreciation to find the change in RCV decided Change in RCV depreciation - Water Change in RCV depreciation due to change in run-off rate - Water Change in RCV depreciation due to change in RCV - Water	epreciation due to th - -	ne change in RC £m £m £m	64.84 (1.84) 66.69
This section calculates the components that cause a change in the return on RCV Wastewater			
wasiewatei			
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater	1.1476 -	factor £m £m	- 4,451.33 5,108.49
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater	1.1476 - 1.1476 -	£m	•
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real	-	£m £m factor £m £m £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition	- 1.1476 -	£m £m factor £m £m £m	5,108.49 (238.25) (273.43) 273.43
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater	- 1.1476 - - - -	£m £m factor £m £m £m £m factor £m £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 - 141.47 1,598.27
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater	- 1.1476 - - - -	£m £m factor £m £m £m £m £m £m £m £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 - 141.47 1,598.27 1,996.58 1,996.58 22.9
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 201718 year average CPIH deflated - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater	- 1.1476 - - - -	£m £m factor £m £m £m £m £m £m £m £m £m £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,996.58 1,996.58 22.9 87.13 5,108.49 1,996.58
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Non-PAYG Totex belance BEG - real PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex according to the properties of the propert	- 1.1476 - - - -	£m £m factor £m	5,108.49 (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,996.58 22.9 87.13 5,108.49 1,996.58 7,105.07 273.43 87.13
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model Pr14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 Non-PAYG Totex depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewa	- 1.1476 - - - -	£m £m factor £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,598.27 1,996.58 22.9 87.13 5,108.49 1,996.58 7,105.07 273.43 87.13
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR19 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR19 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR19 Wastewater network PR19 RCV CPI(H) bf balance BEG - WWN - nominal PR19 Indexation on RCV - CPI(H) bf balance - WWN - nominal	1.1476 - - - 1.1476 - - -	£m £	5,108.49 (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,996.58 22.9 87.13 5,108.49 1,996.58 7,105.07 273.43 87.13 360.55
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated - PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex balance BEG - real PR14 Non-PAYG Totex Deflated PR15 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV additions: Average Asset Life (to 1dp) - Wastewater PR14 Non-PAYG Totex depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 RCV 2017/18 year average CPIH deflated - Wastewater PR14 RCV 2017/18 year average CPIH deflated - Wastewater PR14 RCV 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR14 RCV depreciation - 2017/18 year average CPIH deflated - Wastewater PR19 RCV CPI(H) bi balance BEG - WWN - nominal PR19 RCV CPI(H) bi balance BEG - WWN - nominal PR19 RCV - CPI(H) bi depreciation - WWN - n	1.1476 - - - 1.1476 - - - - - -	£m £	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,996.58 22.9 87.13 5,108.49 1,996.58 7,105.07 273.43 87.13 360.55
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater POS Calculate depreciation on RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAYG Totex in year additions - real PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR19 RCV - CPIH bit palance BEG - WWN - nominal PR19 Indexation on RCV - CPI(H) bit balance - WWN - 2017/18 average PR19 RCV - CPI(H) bit balance - WWN - 2017/18 average PR19 RCV - CPI(H) bit depreciation - WWN - 2017/18 year average CPIH deflated PR19 RCV - CPI(H) bit depreciation - WWN - 2017/18 average PR19 RCV - CPI(H) bit depreciation - WWN - 2017/18 year average PIH deflated P	1.1476	factor £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,996.58 22.9 87.13 5,108.49 1,996.58 7,105.07 273.43 87.13 360.55 - 2,371.75 47.43 2,096.72 - 112.12 97.17 - 2,304.74 69.14
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - real - Wastewater PR14 RCV as at 2015 - real - Wastewater PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - real - wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 Depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PCS Calculate depreciation of 2015 RCV - 2017/18 year average CPIH deflated - Wastewater PCS Calculate depreciation of RCV additions using the equations in the PR14 model PR14 Proportion of capex that is subject to depreciation in year of acquisition PR14 Non-PAVG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAVG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAVG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAVG Totex depreciated in year of acquisition - Wastewater PR14 Non-PAVG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAVG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 Non-PAVG Totex - 2017/18 year average CPIH deflated - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 RCV Additions: Average Asset Life (to 1dp) - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR14 RCV - 2017/18 year average CPIH deflated - Wastewater PR19 RCV - CPIH by balance BEG - WWN - nominal PR19 RCV - CPIH by balance BEG - WWN - nominal PR19 RCV - CPIH by depreciation - WWN - 2017/18 year average CPIH deflated - Wastewater PR19 RCV - CPIH by Balance BEG - WWN - nominal PR19 RCV - CPIH by PR19 RCV - CPIH + RPI wedge bt Dalance BEG -	1.1476	factor £m	5,108.49 - (238.25) (273.43) 273.43 50.00% 282.93 141.47 1,598.27 1,996.58 22.9 87.13 5,108.49 1,996.58 7,105.07 273.43 87.13 360.55 - 2,371.75 47.43 2,096.72 - 112.12 97.17 - 2,304.74 69.14 2,057.46

Page 15 of 31 Sheet:RCV

PR19 RCV additions balance BEG - WWN - nominal PR19 Indexation of RCV additions b/f - WWN - nominal PR19 RCV additions BEG plus Indexation - WWN - 2017/18 year average CPIH deflated	-	£m £m £m	2,087.76 41.76 1,845.66
Calculate depreciation on RCV additions using the equations in the PR19 model			
PR19 Method used to apply run off rate (straight line or reducing balance) ~ wastewater network plus	CPI(H) linked Reducing balance	switch	for info
PR19 Proportion of capex that is subject to depreciation in year of acquisition - WWN PR19 Wastewater network: Non-PAYG Totex - 2017/18 year average CPIH deflated	-	% £m	50.00% 466.62
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WW	/N	£m	233.31
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WW	/N -	£m	233.31
PR19 Run-off rate - RCV additions - active - WWN PR19 RCV post 2020 additions depreciation - 2017/18 year average CPIH deflated - WWN	-	% £m	4.63% 10.81
PR19 RCV additions BEG plus Indexation - WWN - 2017/18 year average CPIH deflated PR19 Run-off rate - RCV additions - active - WWN	-	£m %	1,845.66 4.63%
PR19 RCV additions BEG plus Indexation depreciation - 2017/18 year average CPIH deflated - WWN		£m	85.54
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - WW	/N -	£m	233.31
PR19 RCV additions BEG plus Indexation - WWN - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation - WWN - 2017/18 year average CPIH deflated	-	£m £m	1,845.66 2,078.97
PR19 RCV post 2020 additions depreciation - 2017/18 year average CPIH deflated - WWN PR19 RCV additions BEG plus Indexation depreciation - 2017/18 year average CPIH deflated - WWN	-	£m £m	10.81 85.54
PR19 RCV post 2020 additions plus indexation depreciation - WWN - 2017/18 year average CPIH defl	lated	£m	96.35
PR19 Bio resources			
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	- 740.00
PR19 RCV CPI(H) bf balance BEG - BR - nominal PR19 Indexation on RCV - CPI(H) bf balance - BR - nominal	-	£m £m	746.83 14.94
PR19 RCV CPIH BEG plus indexation - BR - 2017/18 year average CPIH deflated		£m	660.23
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	-
PR19 RCV - CPI(H) bf depreciation - BR - nominal PR19 RCV CPIH depreciation - BR - 2017/18 year average CPIH deflated	-	£m £m	25.59 22.18
FIXTS IXCV OF IT depreciation - Bix - 2017/10 year average of it deflated		٤١١١	22.10
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 RCV CPI(H) + RPI wedge bf balance BEG - BR - nominal	1.1538	factor £m	- 731.86
PR19 Indexation on RCV - CPI(H) + RPI wedge bf balance - BR - nominal	-	£m	21.96
PR19 RCV CPIH + RPI wedge BEG plus indexation - BR - 2017/18 year average CPIH deflated		£m	653.34
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	-
PR19 RCV - CPI(H) + RPI wedge bf depreciation - BR - nominal PR19 RCV CPIH + RPI wedge depreciation - BR - 2017/18 year average CPIH deflated	-	£m £m	35.55 30.81
			20.01
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average PR19 Bio resources: Non-PAYG Totex - nominal	1.1538	factor £m	- 84.68
PR19 Bio resources: Non-PAYG Totex - 2017/18 year average CPIH deflated		£m	73.39
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	-
PR19 RCV additions balance BEG - BR - nominal	-	£m	322.92
PR19 Indexation of RCV additions b/f - BR - nominal PR19 Indexation of RCV additions b/f - BR - 2017/18 year average CPIH deflated	-	£m £m	6.46 285.48
Calculate depreciation on DCV additions using the equations in the DD10 model			
Calculate depreciation on RCV additions using the equations in the PR19 model PR19 Method used to apply run off rate (straight line or reducing balance) ~ bioresources - RCV additi	ions deprecia Reducing balance	switch	for info
PR19 Proportion of capex that is subject to depreciation in year of acquisition - BR	-	%	50.00%
PR19 Bio resources: Non-PAYG Totex - 2017/18 year average CPIH deflated PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - BR	-	£m £m	73.39 36.69
		2111	
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - BR PR19 Run-off rate - RCV additions - active - BR	-	£m %	36.69 7.80%
PR19 RCV post 2020 additions depreciation - BR		£m	2.86
PR19 Indexation of RCV additions b/f - BR - 2017/18 year average CPIH deflated	-	£m	285.48
PR19 Run-off rate - RCV additions - active - BR	-	%	7.80%
PR19 Indexation of RCV post 2020 additions depreciation - BR		£m	22.26
PR19 Non-PAYG Totex depreciated in year of acquisition - 2017/18 year average CPIH deflated - BR	-	£m	36.69
PR19 Indexation of RCV additions b/f - BR - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation - BR - 2017/18 year average CPIH deflated	<u> </u>	£m £m	285.48 322.17
PR19 RCV post 2020 additions depreciation - BR		£m	2.86
PR19 Indexation of RCV post 2020 additions depreciation - BR	-	£m	22.26
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate	ed	£m	25.12
Sum the components for bio resources and wastewater network			
PR19 RCV CPIH BEG plus indexation - WWN - 2017/18 year average CPIH deflated PR19 RCV CPIH + RPI wedge BEG plus indexation - WWN - 2017/18 year average CPIH deflated	-	£m £m	2,096.72 2,057.46
PR19 RCV post 2020 additions plus indexation - WWN - 2017/18 year average CPIH deflated	-	£m	2,078.97
PR19 RCV CPIH BEG plus indexation - BR - 2017/18 year average CPIH deflated PR19 RCV CPIH + RPI wedge BEG plus indexation - BR - 2017/18 year average CPIH deflated	-	£m £m	660.23 653.34
PR19 RCV post 2020 additions plus indexation - BR - 2017/18 year average CPIH deflated	-	£m	322.17
PR19 RCV balance - Wastewater		£m	7,868.90
PR19 RCV CPIH depreciation - WWN - 2017/18 year average CPIH deflated	-	£m	97.17
PR19 RCV CPIH + RPI wedge depreciation - WWN - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation depreciation - WWN - 2017/18 year average CPIH defl	lated -	£m £m	64.55 96.35
PR19 RCV CPIH depreciation - BR - 2017/18 year average CPIH deflated	-	£m	22.18
DD40 DOV ODILL DD1 - 1- 1- 1 DD - 0047/40 ODILL 1-(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ed -	£m £m	30.81 25.12
PR19 RCV CPIH + RPI wedge depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate		£m	336.18
PR19 RCV CPIH + RPI wedge depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater			
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater			W ₀ C
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch		0 = WaSC, 1	
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV depreciation to give the actual change in RCV depreciation to give the actual change in RCV depreciation PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater		0 = WaSC, 1 £m £m	360.55
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch		£m	
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater	epreciation - - -	£m £m	360.55 336.18
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch)	epreciation - - -	£m £m £m	360.55 336.18 (24.37)
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV depreciation to give the actual change in RCV depreciation - 201718 year average CPIH deflated - Wastewater RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and	epreciation - - -	£m £m £m	360.55 336.18 (24.37)
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater	epreciation - - -	£m £m £m 0 = WaSC, 1 £m	360.55 336.18 (24.37) = WoC 7,868.90
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater	epreciation - - -	£m £m £m 0 = WaSC, 1 £m £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27%
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater Company type switch PR14 RCV - 201718 year average CPIH deflated - Wastewater	epreciation - - -	£m £m £m 0 = WaSC, 1 £m % 0 = WaSC, 1 £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater Company type switch Company type switch	epreciation - - -	£m £m £m 0 = WaSC, 1 £m £m % 0 = WaSC, 1	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27%
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV de Company type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Change in RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater Company type switch PR14 RCV - 201718 year average CPIH deflated - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater	epreciation d WWN)	£m £m £m 0 = WaSC, 1 £m % 0 = WaSC, 1 £m %	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV de Company type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Change in RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater Company type switch PR14 RCV - 201718 year average CPIH deflated - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater	epreciation d WWN)	£m £m £m 0 = WaSC, 1 £m % 0 = WaSC, 1 £m %	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Change in RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 RCV - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation with PR19 run-off rate - Wastewater PR14 RCV depreciation with PR19 run-off rate' from the PR14 RCV depreciation to find the Company type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater	epreciation d WWN)	£m £m £m 0 = WaSC, 1 £m % 0 = WaSC, 1 £m e to the change 0 = WaSC, 1 £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or = WoC 360.55
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater Company type switch PR14 RCV - 201718 year average CPIH deflated - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 RCV depreciation with PR19 run-off rate - Wastewater PR14 RCV depreciation with PR19 run-off rate from the PR14 RCV depreciation to find the company type switch	epreciation d WWN)	£m £m £m 0 = WaSC, 1 £m % 0 = WaSC, 1 £m % £m e to the change 0 = WaSC, 1	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or = WoC
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater Company type switch PR14 RCV - 201718 year average CPIH deflated - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR14 RCV depreciation with PR19 run-off rate - Wastewater Subtract the 'PR14 RCV depreciation with PR19 run-off rate' from the PR14 RCV depreciation to find the company type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR14 RCV depreciation with PR19 run-off rate - Wastewater Company type switch PR14 RCV depreciation with PR19 run-off rate - Wastewater PR14 RCV depreciation with PR19 run-off rate - Wastewater Company type switch	epreciation d WWN)	£m £m £m 0 = WaSC, 1 £m % £m % £m e to the change 0 = WaSC, 1 £m £m £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or = WoC 360.55 303.55 (57.01)
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflated PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV depreciation - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR14 RCV depreciation with PR19 run-off rate - Wastewater Subtract the 'PR14 RCV depreciation with PR19 run-off rate' from the PR14 RCV depreciation to find the company type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR14 RCV depreciation with PR19 run-off rate - Wastewater Company type switch PR14 RCV depreciation with PR19 run-off rate - Wastewater Change in RCV depreciation due to change in run-off rate - Wastewater Change in RCV depreciation to find the change in RCV depreciation to find t	epreciation d WWN)	£m £m £m £m 0 = WaSC, 1 £m % £m e to the change 0 = WaSC, 1 £m £m £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or = WoC 360.55 303.55 (57.01)
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Change in RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV depreciation - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 RCV depreciation with PR19 run-off rate - Wastewater PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater Company type switch PR14 RCV depreciation with PR19 run-off rate - Wastewater Change in RCV depreciation due to change in run-off rate - Wastewater Change in RCV depreciation - Wastewater	epreciation d WWN)	£m £m £m £m 0 = WaSC, 1 £m % £m e to the change 0 = WaSC, 1 £m £m me change in RC 0 = WaSC, 1 £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or = WoC 360.55 303.55 (57.01) CV only = WoC
PR19 RCV post 2020 additions plus indexation depreciation - BR - 2017/18 year average CPIH deflate PR19 RCV depreciation - Wastewater Subtract the PR19 RCV depreciation from the PR14 RCV depreciation to give the actual change in RCV decompany type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR19 RCV depreciation - Wastewater Change in RCV depreciation - Wastewater Calculate the PR14 RCV depreciation with the PR19 run-off rate (weighted average run-off rate for BR and Company type switch PR19 RCV balance - Wastewater PR19 RCV depreciation - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR19 Weighted average run-off rate - Wastewater PR19 PR14 RCV depreciation with PR19 run-off rate - Wastewater Subtract the 'PR14 RCV depreciation with PR19 run-off rate' from the PR14 RCV depreciation to find the company type switch PR14 RCV depreciation - 201718 year average CPIH deflated - Wastewater PR14 RCV depreciation with PR19 run-off rate - Wastewater Company type switch PR14 RCV depreciation with PR19 run-off rate - Wastewater Change in RCV depreciation due to change in run-off rate - Wastewater Change in RCV depreciation to find the change in RCV	epreciation d WWN)	£m £m £m £m 0 = WaSC, 1 £m % £m e to the change 0 = WaSC, 1 £m £m £m £m	360.55 336.18 (24.37) = WoC 7,868.90 336.18 4.27% = WoC 7,105.07 4.27% 303.55 in the run-off rate or = WoC 360.55 303.55 (57.01) CV only = WoC

Summary

Page 16 of 31 Sheet:RCV

0.11				
Gather to	gether the components of the change in RCV depreciation for water and wastewater. Change in RCV depreciation due to change in run-off rate - Water	-	£m	(1.84)
	Change in RCV depreciation due to change in run-off rate - Wastewater Change in RCV depreciation due to change in run-off rate	-	£m	(57.01) (58.85)
			Cm	· · · · · · · · · · · · · · · · · · ·
	Change in RCV depreciation due to change in RCV - Water Change in RCV depreciation due to change in RCV - Wastewater Change in RCV depreciation due to change in RCV		£m £m	66.69 32.63 99.32
Checks	Change in RCV depreciation due to change in RCV		žIII.	99.32
PR19	RCV depreciation - Water RCV depreciation - 201718 year average CPIH deflated - Water	-	£m £m	268.94 204.09
FN14	Change in RCV depreciation due to change in run-off rate - Water	-	£m	(1.84)
	Change in RCV depreciation due to change in RCV - Water Change in Water RCV depreciation check	-	£m check	66.69
	Company type switch	_	0 = WaSC, 1	
	RCV depreciation - Wastewater RCV depreciation - 201718 year average CPIH deflated - Wastewater	-	£m £m	336.18 360.55
	Change in RCV depreciation due to change in run-off rate - Wastewater Change in RCV depreciation due to change in RCV - Wastewater	-	£m £m	(57.01) 32.63
	Change in Wastewater RCV depreciation check		check	
Change ir	n bill due to change in RETURN ON RCV			
This secti	on calculates the components that cause a change in the return on RCV			
	Average 2015 RCV - real - water	-	£m	4,006.88
	Average RCV; post 2015 additions - real - water Total RCV - real - Water	_	£m £m	1,126.04 5,132.93
PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476	factor	-
	Total RCV - real - Water Total RCV - 201718 year average CPIH deflated - Water	-	£m £m	5,132.93 5,890.71
	Return on 2015 RCV Bf - real - water	_	£m	144.25
PR14	Return on RCV Additions - real - water Total return on RCV - real - Water	_	£m £m	40.54 184.79
	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476	factor	104.70
PR14	Total return on RCV - real - Water	1.1476	£m	184.79
	Total Return on RCV - 201718 year average CPIH deflated - Water		£m	212.07
PR19 Sum the	components for water resources and water network			
	CPI(H): Fin year average - inflate from base year 2017-18 average Average of RCV - CPI(H) bf - WR - nominal	115.38%	factor £m	152.30
PR19	Average of RCV - CPI(H) other adjustments balance - WR - nominal	-	£m	-
	Average of RCV - CPI(H) + RPI wedge bf - WR - nominal Average of RCV post 2020 additions - WR - nominal	-	£m £m	146.64 219.01
	Average of RCV - CPI(H) bf - WN - nominal Average of RCV - CPI(H) other adjustments balance - WN - nominal	-	£m £m	2,902.98
	Average of RCV - CPI(H) + RPI wedge bf - WN - nominal	-	£m	2,928.72
	Average of RCV post 2020 additions - WN - nominal Total RCV - 2017/18 year average CPIH deflated - Water	-	£m £m	2,891.91 8,009.73
	CPI(H): Fin year average - inflate from base year 2017-18 average	115.38%	factor	
PR19	Return on RCV - CPI(H) bf - WR - nominal	-	£m	5.03
	Return on RCV - CPI(H) other adjustments - WR - nominal Return on RCV - CPI(H) + RPI wedge bf - WR - nominal	-	£m	3.37
	Return on RCV additions - WR - nominal Return on RCV - CPI(H) bf - WN - nominal	-	£m £m	7.24 95.91
PR19	Return on RCV - CPI(H) other adjustments - WN - nominal	-	£m	-
	Return on RCV - CPI(H) + RPI wedge bf - WN - nominal Return on RCV additions - WN - nominal	-	£m £m	67.39 95.55
PR19	Return on RCV - 2017/18 year average CPIH deflated - Water		£m	237.90
	the PR19 return on RCV from the PR14 return on RCV to give the actual change in return			
	Total Return on RCV - 201718 year average CPIH deflated - Water Return on RCV - 2017/18 year average CPIH deflated - Water	-	£m £m	212.07 237.90
	Change in Return on RCV - Water		£m	25.84
	the PR14 return on RCV with the PR19 WACC (weighted average WACC for WR and WN) Total RCV - 2017/18 year average CPIH deflated - Water	_	£m	8,009.73
PR19	Return on RCV - 2017/18 year average CPIH deflated - Water	-	£m	237.90
	PR19 Weighted average WACC - Water		%	2.97%
	Total RCV - 201718 year average CPIH deflated - Water PR19 Weighted average WACC - Water	-	£m %	5,890.71 2.97%
	PR14 Return on RCV with PR19 WACC - Water		£m	174.96
	the 'PR14 Return on RCV with PR19 WACC' from the PR14 return on RCV to find the change in the return due to the cl Total Return on RCV - 201718 year average CPIH deflated - Water	nange in the ' -	WACC only £m	212.07
	PR14 Return on RCV with PR19 WACC - Water Change in Return on RCV due to change in WACC - Water	-	£m £m	174.96 (37.10)
Cubtroot		ana in DCV a		(37.10)
Subtract	the impact of the change in WACC from the actual change in return on RCV to find the change in return due to the char Change in Return on RCV - Water	ige in RCV 0	£m	25.84
	Change in Return on RCV due to change in WACC - Water Change in Return on RCV due to change in RCV - Water	-	£m £m	(37.10) 62.94
This socti	on calculates the components that cause a change in the return on BCV			
Wastewa	on calculates the components that cause a change in the return on RCV ter			
PR14				
PR14	Average 2015 RCV - real - Wastewater Average RCV; post 2015 additions - real - Wastewater	-	£m £m	4,332.21 1,554.54
PR14	Total RCV - real - Wastewater		£m	5,886.75
	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Total RCV - real - Wastewater	1.1476	factor £m	5,886.75
	Total RCV - 201718 year average CPIH deflated - Wastewater		£m	6,755.82
	Return on 2015 RCV Bf - real - Wastewater	-	£m	155.96
	Return on RCV Additions - real - Wastewater Total return on RCV - real - Wastewater	_	£m £m	55.96 211.92
	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476	factor	-
PR14	Total return on RCV - real - Wastewater Total return on RCV - 201718 year average CPIH deflated - Wastewater	-	£m £m	211.92 243.21
PR19			~!!!	210.21
Sum the	components for bio resources and wastewater network			
	CPI(H): Fin year average - inflate from base year 2017-18 average Average of RCV - CPI(H) bf - WWN - nominal	115.38%	factor £m	- 2,363.12
PR19	Average of RCV - CPI(H) other adjustments balance - WWN - nominal	-	£m	-
PK19	Average of RCV - CPI(H) + RPI wedge bf - WWN - nominal	-	£m	2,336.65

2017/18 year average CPIH deflated

2017/18 year average CPIH deflated

Page 17 of 31 Sheet:RCV

PR19 Average of RCV post 2020 additions - WWN - nominal	-	£m	2,343.12	
PR19 Average of RCV - CPI(H) bf - BR - nominal	-	£m	748.98	
PR19 Average of RCV - CPI(H) other adjustments balance - BR - nominal	-	£m	-	
PR19 Average of RCV - CPI(H) + RPI wedge bf - BR - nominal	-	£m	736.04	
PR19 Average of RCV post 2020 additions - BR - nominal	-	£m £m	357.23	
PR19 Total RCV - 2017/18 year average CPIH deflated - Wastewater		LIII	7,700.81	
PR19 CPI(H): Fin year average - inflate from base year 2017-18 average	115.38%	factor	-	
PR19 Return on RCV - CPI(H) bf - WWN - nominal	-	£m	78.08	
PR19 Return on RCV - CPI(H) other adjustments - WWN - nominal	-	£m	-	
PR19 Return on RCV - CPI(H) + RPI wedge bf - WWN - nominal PR19 Return on RCV additions - WWN - nominal	-	£m	53.77	
PR19 Return on RCV additions - WWN - nominal PR19 Return on RCV - CPI(H) bf - BR - nominal		£m £m	77.41 24.75	
PR19 Return on RCV - CPI(H) other adjustments - BR - nominal		£m	24.73	
PR19 Return on RCV - CPI(H) + RPI wedge bf - BR - nominal	_	£m	16.94	
PR19 Return on RCV additions - BR - nominal	_	£m	11.80	
PR19 Return on RCV - 2017/18 year average CPIH deflated - Wastewater		£m	227.72	
Subtract the PR19 return on RCV from the PR14 return on RCV to give the actual change in return	0	- Wasc 1 - Wa	0	
Company type switch PR14 Total return on RCV - 201718 year average CPIH deflated - Wastewater	- 0 -	= WaSC, 1 = Wo £m	243.21	
PR19 Return on RCV - 2017/18 year average CPIH deflated - Wastewater	-	£m	227.72	
Change in Return on RCV - Wastewater		£m	(15.49)	
Calculate the PR14 return on RCV with the PR19 WACC (weighted average WACC for BR and WWN)				
Company type switch	- 0	= WaSC, 1 = Wo	C	
PR19 Total RCV - 2017/18 year average CPIH deflated - Wastewater	-	£m	7,700.81	
PR19 Return on RCV - 2017/18 year average CPIH deflated - Wastewater	-	£m	227.72	
PR19 PR19 Weighted average WACC - Wastewater		%	2.96%	
Company type switch	- 0	= WaSC, 1 = Wo	C	
PR14 Total RCV - 201718 year average CPIH deflated - Wastewater	- U	£m	6,755.82	
PR19 PR19 Weighted average WACC - Wastewater	-	%	2.96%	
PR14 Return on RCV with PR19 WACC - Wastewater		£m	199.77	
Subtract the 'PR14 Return on RCV with PR19 WACC' from the PR14 return on RCV to find the change in the return	n due to the change in the WA	ACC only		
Company type switch		= WaSC, 1 = Wo	С	
PR14 Total return on RCV - 201718 year average CPIH deflated - Wastewater	-	£m	243.21	
PR14 Return on RCV with PR19 WACC - Wastewater	-	£m	199.77	
Change in Return on RCV due to change in WACC - Wastewater		£m	(43.43)	
Subtract the impact of the change in WACC from the actual change in return on RCV to find the change in return d	ue to the change in RCV only	,		
Company type switch	- 0	= WaSC, 1 = Wo	С	
Change in Return on RCV - Wastewater	-	£m	(15.49)	
Change in Return on RCV due to change in WACC - Wastewater	-	£m	(43.43) 27.94	
Change in Return on RCV due to change in RCV - Wastewater		£m	27.94	
Gather together the components of the change in return on RCV for water and wastewater.				
Change in Return on RCV due to change in WACC - Water	-	£m	(37.10)	
Change in Return on RCV due to change in WACC - Wastewater		£m	(43.43)	
Change in return on RCV due to change in WACC		£m	(80.54)	2017/18 year average CPIH deflated
Observation Poly and a Poly I servation and the Poly I Water		0	00.04	
Change in Return on RCV due to change in RCV - Water	-	£m	62.94	
Change in Return on RCV due to change in RCV - Wastewater Change in return on RCV due to change in RCV	-	£m £m	27.94 90.88	2017/18 year average CPIH deflated
Sharige in rotati on the vade to charige in the v		2.11		2017/10 your avorage of its dollatou
Checks			007.00	
PR19 Return on RCV - 2017/18 year average CPIH deflated - Water PR14 Total Return on RCV - 201718 year average CPIH deflated - Water	-	£m £m	237.90 212.07	
Change in Return on RCV due to change in WACC - Water	-	£m	(37.10)	
Change in Return on RCV due to change in RCV - Water	-	£m	62.94	
Change in Water RCV depreciation check		check	-	
Company type switch	- 0	= WaSC, 1 = Wo	C	
PR19 Return on RCV - 2017/18 year average CPIH deflated - Wastewater	- U	£m	227.72	
PR14 Total return on RCV - 201718 year average CPIH deflated - Wastewater	-	£m	243.21	
Change in Return on RCV due to change in WACC - Wastewater	-	£m	(43.43)	
Change in Return on RCV due to change in RCV - Wastewater Change in Wastewater return on RCV check	-	£m check	27.94	
Change in wastewater retuin on NC v Check		CHECK	•	
End of sheet				

Page 18 of 31 Sheet:Totex

Totex



Value

Unit

Note

Constant

		Constant	Onit	value
	ALE: Change in bill due to change in PAYG TOTEX on calculates the components causing the change in PAYG Totex			
Water				
PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Totex - real - Water Totex - 2017/18 year average CPIH deflated - Water	1.1476 -	factor £m £m	- 657.01 754.01
PR14 PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PAYG Totex - real - Water PAYG Totex - 2017/18 year average CPIH deflated - Water	1.1476	factor £m £m	405.14 464.95
PR19	TATO Totex - 2017/10 year average of infidentated - water		ZIII	404.90
PR19 PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Totex - net of grants and contributions - WR (post sensi adj) - nominal Totex - net of grants and contributions - WR (post sensi adj) - 2017/18 year average CPIH deflated	1.1538	factor £m £m	148.76 128.93
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Water resources: PAYG Totex - nominal Water Resources: PAYG Totex - 2017/18 year average CPIH deflated	1.1538 -	factor £m £m	82.86 71.82
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Totex - net of grants and contributions - WN (post sensi adj) - nominal Totex - net of grants and contributions - WN (post sensi adj) - 2017/18 year average CPIH deflated	1.1538 -	factor £m £m	- 1,097.13 950.89
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Water network: PAYG Totex - nominal Water Network: PAYG Totex - 2017/18 year average CPIH deflated	1.1538	factor £m £m	- 469.24 406.70
PR19 PR19	Totex - net of grants and contributions - WR (post sensi adj) - 2017/18 year average CPIH deflated Totex - net of grants and contributions - WN (post sensi adj) - 2017/18 year average CPIH deflated Totex - net of grants and contributions - Water (post sensi adj) - 2017/18 year average CPIH deflated	-	£m £m £m	128.93 950.89 1,079.82
PR19 PR19	Water Resources: PAYG Totex - 2017/18 year average CPIH deflated Water Network: PAYG Totex - 2017/18 year average CPIH deflated		£m £m	71.82 406.70
	PAYG Totex - Water (post sensi adj) - 2017/18 year average CPIH deflated he PR19 PAYG Totex from the PR14 PAYG Totex to give the actual change in PAYG Totex		£m	478.51
PR14	PAYG Totex - 2017/18 year average CPIH deflated - Water PAYG Totex - Water (post sensi adj) - 2017/18 year average CPIH deflated Change in PAYG Totex - Water	-	£m £m £m	464.95 478.51 13.56
	the PR14 PAYG Totex with PR19 PAYG% (weighted average PAYG% for WR and WN)		Corr	4 070 00
PR19	Totex - net of grants and contributions - Water (post sensi adj) - 2017/18 year average CPIH deflated PAYG Totex - Water (post sensi adj) - 2017/18 year average CPIH deflated Weighted average PAYG% - active - Water	-	£m £m %	1,079.82 478.5 44.31%
	Totex - 2017/18 year average CPIH deflated - Water Weighted average PAYG% - active - Water PR14 PAYG Totex with PR19 PAYG% - Water	-	£m % £m	754.0° 44.31% 334.13
	he 'PR14 PAYG Totex with PR19 PAYG%' from the PR14 PAYG Totex to find the change in the PAYG Totex due to the PAYG Totex - 2017/18 year average CPIH deflated - Water PR14 PAYG Totex with PR19 PAYG% - Water Change in PAYG Totex due to change in PAYG% - Water	change in the PAYG - -	6% only £m £m £m	464.95 334.13 (130.82
Subtract t	he impact of the change in PAYG% from the actual change in PAYG Totex to find the change in PAYG totex due to the c Change in PAYG Totex - Water Change in PAYG Totex due to change in PAYG% - Water Change in PAYG Totex due to change in Totex - Water	hange in Totex only - -	£m £m £m	13.56 (130.82 144.38
Γhis section	on calculates the components causing the change in PAYG Totex ter			
<u>PR14</u>				
PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Totex - real - Wastewater Totex - 2017/18 year average CPIH deflated - Wastewater	1.1476 -	factor £m £m	615.23 706.06
PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PAYG Totex - real - Wastewater PAYG Totex - 2017/18 year average CPIH deflated - Wastewater	1.1476 -	factor £m £m	332.30 381.36
	CPI(H): Fin year average - inflate from base year 2017-18 average Totex - net of grants and contributions - WWN (post sensi adj) - nominal	1.1538	factor £m	- 951.96
	Totex - net of grants and contributions - WWN (post sensi adj) - 2017/18 year average CPIH deflated		£m	825.07
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Wastewater network: PAYG Totex - nominal Wastewater network: PAYG Totex - 2017/18 year average CPIH deflated	1.1538 -	factor £m £m	413.58 358.45
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Totex - net of grants and contributions - BR (post sensi adj) - nominal Totex - net of grants and contributions - BR (post sensi adj) - 2017/18 year average CPIH deflated	1.1538 -	factor £m £m	144.99 125.67
PR19	CPI(H): Fin year average - inflate from base year 2017-18 average Bio resources: PAYG Totex - nominal Bio resources: PAYG Totex - 2017/18 year average CPIH deflated	1.1538	factor £m £m	60.32 52.28
PR19	Totex - net of grants and contributions - WWN (post sensi adj) - 2017/18 year average CPIH deflated Totex - net of grants and contributions - BR (post sensi adj) - 2017/18 year average CPIH deflated Totex - net of grants and contributions - Wastewater (post sensi adj) - 2017/18 year average CPIH deflated		£m £m £m	825.07 125.67 950.74
PR19 PR19	Wastewater network: PAYG Totex - 2017/18 year average CPIH deflated Bio resources: PAYG Totex - 2017/18 year average CPIH deflated		£m £m	358.45 52.28
	PAYG Totex - wastewater (post sensi adj) - 2017/18 year average CPIH deflated he PR19 PAYG Totex from the PR14 PAYG Totex to give the actual change in PAYG Totex		£m	410.73
PR14	Company type switch PAYG Totex - 2017/18 year average CPIH deflated - Wastewater PAYG Totex - wastewater (post sensi adj) - 2017/18 year average CPIH deflated	- (0 = WaSC, 1 = Wor £m £m	381.36 410.73
Calculate	Change in PAYG Totex - Wastewater the PR14 PAYG Totex with PR19 PAYG% (weighted average PAYG% for BR and WWN)		£m	29.38
PR19	Company type switch Totex - net of grants and contributions - Wastewater (post sensi adj) - 2017/18 year average CPIH deflated PAYG Totex - wastewater (post sensi adj) - 2017/18 year average CPIH deflated	- (- -	0 = WaSC, 1 = Wor £m £m	950.74 950.75

Page 19 of 31 Sheet:Totex

PR19	Weighted average PAYG% - active - Wastewater	%	43.20%	
	Company type switch	- 0 = WaSC, 1 = WoC		
	Totex - 2017/18 year average CPIH deflated - Wastewater	- £m	706.06	
	Weighted average PAYG% - active - Wastewater	- %	43.20%	
	PR14 PAYG Totex with PR19 PAYG% - Wastewater	£m	305.03	
Subtract the	ne 'PR14 PAYG Totex with PR19 PAYG%' from the PR14 PAYG Totex to find the change in the PAYG Totex due to the change in the	PAYG% only		
	Company type switch	- 0 = WaSC, 1 = WoC		
PR14	PAYG Totex - 2017/18 year average CPIH deflated - Wastewater	- £m	381.36	
	PR14 PAYG Totex with PR19 PAYG% - Wastewater	- £m	305.03	
	Change in PAYG Totex due to change in PAYG% - Wastewater	£m	(76.33)	
Subtract ti	ne impact of the change in PAYG% from the actual change in PAYG Totex to find the change in PAYG totex due to the change in Totex	only		
	Company type switch	- 0 = WaSC, 1 = WoC		
	Change in PAYG Totex - Wastewater	- £m	29.38	
	Change in PAYG Totex due to change in PAYG% - Wastewater	- £m	(76.33)	
	Change in PAYG Totex due to change in Totex - Wastewater	£m	105.70	
Summary				
Gather tog	gether the components of the change in PAYG Totex for water and wastewater.			
	Change in PAYG Totex due to change in PAYG% - Water	- £m	(130.82)	
	Change in PAYG Totex due to change in PAYG% - Wastewater	- £m	(76.33)	
-	Change in PAYG Totex due to change in PAYG%	£m	(207.15)	2017/18 year average CPIH deflated
	Change in PAYG Totex due to change in Totex - Water	- £m	144.38	
	Change in PAYG Totex due to change in Totex - Wastewater	- £m	105.70	
_	Change in PAYG Totex due to change in Totex	£m	250.09	2017/18 year average CPIH deflated
-				, G
Checks PR14	PAYG Totex - 2017/18 year average CPIH deflated - Water	- £m	464.95	
	PAYG Totex - Water (post sensi adj) - 2017/18 year average CPIH deflated	- £m	478.51	
	Change in PAYG Totex due to change in PAYG% - Water	- £m	(130.82)	
	Change in PAYG Totex due to change in Totex - Water	- £m	144.38	
	Change in Water PAYG Totex check	check	-	
	Company type switch	- 0 = WaSC, 1 = WoC		
PR14	PAYG Totex - 2017/18 year average CPIH deflated - Wastewater	- £m	381.36	
	PAYG Totex - wastewater (post sensi adj) - 2017/18 year average CPIH deflated	- £m	410.73	
	Change in PAYG Totex due to change in PAYG% - Wastewater	- £m	(76.33)	
	Change in PAYG Totex due to change in Totex - Wastewater	- £m	105.70	
	Change in Wastewater PAYG Totex check	check	-	

Page 20 of 31 Sheet:Wholesale

Wholesale



		Constant	Unit Val	ie	Note
WHOL	ESALE: Change in bill due to change in OTHER ITEMS				
Chan	ge in revenue re-profiling				
Chan	PR14 Revenue requirement including tax charge - real - water	-	£m	771.53	
	PR14 Phase 9: Re-profiled allowed revenue - real - water	-	£m	771.53	
	PR14 Impact of re-profiling of revenue requirement - real - water		£m	-	
	PR14 Revenue requirement including tax charge - real - wastewater	_	£m	1,068.67	
	PR14 Phase 9: Re-profiled allowed revenue - real - wastewater	-	£m	1,068.67	
	PR14 Impact of re-profiling of revenue requirement - real - wastewater		£m	-	
	PR19 Impact of re-profiling of allowed revenue - WR - real	-	£m	-	
	PR19 Impact of re-profiling of allowed revenue - WN - real	-	£m	-	
	PR19 Impact of re-profiling of allowed revenue - WWN - real PR19 Impact of re-profiling of allowed revenue - BR - real	-	£m £m	-	
	PR19 Impact of re-profiling of allowed revenue - real	<u> </u>	£m		
Chan	ge in bill due to change in other wholesale items PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476	factor		
	PR14 Tax charge - real - water	-	£m	_	
	PR14 Pension deficit repair allowance - real - water	-	£m	9.07	
less	PR14 Other income (incl 3rd party income) - real - water	-	£m	(5.89)	
	PR14 Tax charge - real - wastewater PR14 Pension deficit repair allowance - real - wastewater	-	£m £m	8.34	
less	PR14 Other income (incl 3rd party income) - real - wastewater	_	£m	(11.37)	
	PR14 Impact of re-profiling of revenue requirement - real - water	-	£m	-	
	PR14 Impact of re-profiling of revenue requirement - real - wastewater	-	£m		
	PR14 Total of Other Wholesale Items - 2017/18 year average CPIH deflated		£m	0.16	
	PR19 Tax WR - real	_	£m	_	
	PR19 Wholesale Water resources service defined benefit pension deficit recovery per IN13/17 - real	-	£m	-	
	PR19 Total direct procurement from customers - infrastructure cost - WR - real	-	£m	- (0.05)	
less	PR19 Third party & principle service revenues - WR - real PR19 Tax WN - real	-	£m £m	(3.85)	
	PR19 Wholesale Water network service defined benefit pension deficit recovery per IN13/17 - real		£m		
	PR19 Total direct procurement from customers - infrastructure cost - WN - real	-	£m	-	
less	PR19 Third party & principle service revenues - WN - real	-	£m	(5.08)	
	PR19 Other Wholesale Items - Water - real		£m	(8.92)	
	Company type switch	- 0=	WaSC, 1 = Wo	C	
	PR19 Tax WWN - real	-	£m	-	
	PR19 Wholesale Wastewater network service defined benefit pension deficit recovery per IN13/17 - real	-	£m	-	
logo	PR19 Total direct procurement from customers - infrastructure cost - WWN - real	-	£m	(10.08)	
less	PR19 Third party & principle service revenues - WWN - real PR19 Tax BR - real		£m £m	(10.08)	
	PR19 Wholesale Bio resources service defined benefit pension deficit recovery per IN13/17 - real	_	£m	_	
	PR19 Total direct procurement from customers - infrastructure cost - BR - real	-	£m	-	
less	PR19 Third party & principle service revenues - BR - real	-	£m	(0.70)	
	PR19 Other Wholesale Items - Wastewater - real		£m	(10.77)	
	PR19 Other Wholesale Items - Water - real	-	£m	(8.92)	
	PR19 Other Wholesale Items - Wastewater - real	-	£m	(10.77)	
	PR19 Impact of re-profiling of allowed revenue - real	-	£m	- (40.70)	
	PR19 Total of Other Wholesale Items - real		£m	(19.70)	
	PR14 Total of Other Wholesale Items - 2017/18 year average CPIH deflated	-	£m	0.16	
	PR19 Total of Other Wholesale Items - real	-	£m	(19.70)	
	Change in other wholesale items		£m	(19.86)	2017/18 year average CPIH deflated
End of	sheet				
	Water				
	PR14 Total of Other Wholesale Items - 2017/18 year average CPIH deflated	-	£m	3.65	
	PR19 Total of Other Wholesale Items - real	-	£m	(8.92)	
	Change in other wholesale items		£m	(12.57)	
	Wastewater				
	PR14 Total of Other Wholesale Items - 2017/18 year average CPIH deflated	-	£m	(3.48)	
	PR19 Total of Other Wholesale Items - real	-	£m	(10.77)	
	Change in other wholesale items		£m	(7.29)	
	Check			_	
	Chook			-	

Page 21 of 31 Sheet:Reconciliation

Reconciliation



	Constant	Unit	Value	Note
WHOLESALE: Change in bill due to change in RECONCILIATION ITEMS				
Sum the PR14 wholesale reconciliation items (there are no retail reconciliation items for PR14)				
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476	factor	-	
PR14 SIM adjustment (+ or -) - real - Water	-	£m	(8.18)	
PR14 Opex incentive allowance (+ only) - real - Water PR14 CIS adjustment (+ or -) - real - Water		£m £m	(3.23)	
PR14 RCM adjustment (+ or -) - real - Water	_	£m	8.15	
PR14 Equity injection clawback (- only) - real - Water	-	£m	-	
PR14 Tax refinancing benefit clawback (- only) - real - Water	-	£m	-	
PR14 Outcome delivery incentive (+ or -) - real - Water	-	£m	-	
PR14 Other tax adjustments (Lear) Value Chasen real Water	-	£m	3.84	
PR14 Other tax adjustments (+ or -) Value Chosen - real - Water PR14 Other adjustments (+ or -) Value Chosen - real - Water		£m £m	-	
PR14 SIM adjustment (+ or -) - real - Wastewater	_	£m	(8.66)	
PR14 Opex incentive allowance (+ only) - real - Wastewater	-	£m	-	
PR14 CIS adjustment (+ or -) - real - Wastewater	-	£m	(15.50)	
PR14 RCM adjustment (+ or -) - real - Wastewater	-	£m	14.73	
PR14 Equity injection clawback (- only) - real - Wastewater	-	£m	-	
PR14 Tax refinancing benefit clawback (- only) - real - Wastewater PR14 Outcome delivery incentive (+ or -) - real - Wastewater		£m £m		
PR14 Totex menu additional income (+ or -) - real - Wastewater	_	£m	1.49	
PR14 Other tax adjustments (+ or -) Value Chosen - real - Wastewater	-	£m	-	
PR14 Other adjustments (+ or -) Value Chosen - real - Wastewater	-	£m	-	
PR14 PR14 reconciliation items - 2017/18 year average CPIH deflated		£m	(8.43)	
Sum the PR19 wholesale reconciliation items (the retail SIM adjustment is dealt with on sheet 'Summary_Calc')				
PR19 Water resources - End of Period ODIs (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Water resources - In period ODIs (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Water resources - Totex (+ or -) Value Chosen - active - adjusted - real	-	£m	-	
PR19 Water resources - WRFIM (+ or -) Value Chosen - active - adjusted - real	-	£m	-	
PR19 Water resources - Residential retail mechanism (+ or -) Value Chosen - active - real PR19 Water resources - Blind year (+ or -) Value Chosen - active - real	•	£m	-	
PR19 Water resources - Billid year (+ or -) Value Chosen - active - real PR19 Water resources - Water trading incentive (+ or -) Value Chosen - active - real		£m £m	0.18	
PR19 Water network - End of Period ODIs (+ or -) Value Chosen - active - real	-	£m	(15.34)	
PR19 Water network - In period ODIs (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Water network - Totex (+ or -) Value Chosen - active - adjusted - real	-	£m	(2.01)	
PR19 Water network - WRFIM (+ or -) Value Chosen - active - adjusted - real	-	£m	12.60	
PR19 Water network - Residential retail mechanism (+ or -) Value Chosen - active - real	-	£m	- (2.22)	
PR19 Water network - Blind year (+ or -) Value Chosen - active - real	-	£m	(0.30)	
PR19 Water network - Water trading incentive (+ or -) Value Chosen - active - real PR19 Wastewater network - End of Period ODIs (+ or -) Value Chosen - active - real	-	£m £m	(2.40)	
PR19 Wastewater network - In period ODIs (+ or -) Value Chosen - active - real		£m	(2.40)	
PR19 Wastewater network - Totex (+ or -) Value Chosen - active - adjusted - real	-	£m	0.66	
PR19 Wastewater network - WRFIM (+ or -) Value Chosen - active - adjusted - real	-	£m	4.08	
PR19 Wastewater network - Residential retail mechanism (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Wastewater network - Blind year (+ or -) Value Chosen - active - real	-	£m	(5.53)	
PR19 Wastewater network - Water trading incentive (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Bio resources - End of Period ODIs (+ or -) Value Chosen - active - real PR19 Bio resources - In period ODIs (+ or -) Value Chosen - active - real	•	£m £m	-	
PR19 Bio resources - Totex (+ or -) Value Chosen - active - adjusted - real		£m	-	
PR19 Bio resources - WRFIM (+ or -) Value Chosen - active - adjusted - real	_	£m	_	
PR19 Bio resources - Residential retail mechanism (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Bio resources - Blind year (+ or -) Value Chosen - active - real	-	£m	-	
PR19 Bio resources - Water trading incentive (+ or -) Value Chosen - active - real	-	£m	-	
PR19 PR19 wholesale reconciliation items - real		£m	(8.06)	
PR14 PR14 reconciliation items - 2017/18 year average CPIH deflated	-	£m	(8.43)	
PR19 PR19 wholesale reconciliation items - real	-	£m	(8.06)	
Change in wholesale reconciliation items		£m	0.38	2017/18 year average CPIH deflated
End of sheet				
Water				
PR14 PR14 reconciliation items - 2017/18 year average CPIH deflated	-	£m	0.67	
PR19 PR19 wholesale reconciliation items - real Change in wholesale reconciliation items	-	£m £m	(4.87) (5.54)	
Change in wholesale reconciliation tems		LIII	(0.04)	
Wastewater		~	(0.11)	
PR14 PR14 reconciliation items - 2017/18 year average CPIH deflated PR19 PR19 wholesale reconciliation items - real	-	£m £m	(9.11)	
Change in wholesale reconciliation items Change in wholesale reconciliation items	-	£m £m	(3.19) 5.92	
		2111	0.32	
Check			0.00	

Page 22 of 31 Sheet:Retail

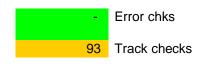
Retail



	Constant	Unit	Value	Note
ETAIL: Change in bill due to change in COST TO SERVE				
Change in bill due to change in retail CTS				
Note: In the PR14 model wholesale prices are indexed but retail prices are not indexed.				
Company type switch	-	0 = WaSC, 1 = V	VoC	
PR14 Retail allowed revenue per customer: single service	-	£	27.09	
PR14 Retail allowed revenue per customer: joint services	-	£	35.22	
PR14 Retail allowed revenue per customer		£	35.22	
Company type switch	-	0 = WaSC, 1 = V	VoC	
PR19 Retail allowed revenue per customer: single service - real	-	£	15.33	
PR19 Retail allowed revenue per customer: joint service - real	-	£	31.30	
PR19 Retail allowed revenue per customer		£	31.30	
PR14 Retail allowed revenue per customer	-	£	35.22	
PR19 Retail allowed revenue per customer	-	£	31.30	
Change in retail CTS		£	(0.38)	2017/18 year average CPIH deflate
nd of sheet				

Page 23 of 31 Sheet:Customers

Customers



Constant

Unit Value

Note

WHOLES	ALE: Change in bill due to change in CUSTOMER NUMBERS and APPORTIONMENT			
_	n bill due to change in customer numbers			
PR14	ion calculates the PR14 customer numbers and indexes the allowed revenue			
	Households connected for water and wastewater - unmetered Households connected for water and wastewater - metered	-	000s 000s	1,693.79 1,863.74
PR14	Total households - Water & Wastewater		000s	3,557.52
	Water: Number of unmeasured households	-	000s	32.14
	Water: Number of measured households Total households - Water only	-	000s 000s	15.45 47.60
PR14	Wastewater: Number of unmeasured households	_	000s	637.14
PR14	Wastewater: Number of measured households with standing charge Total households - Wastewater only	-	000s 000s	1,342.69 1,979.83
	•			
PR14	Total households - Water & Wastewater Total households - Water only	- -	000s 000s	3,557.52 47.60
PR14	Total households - Water		000s	3,605.12
	Total households - Wastewater	-	000s 000s	3,557.52
	Total households - Wastewater only Total households - Wastewater	<u>-</u>	000s	1,979.83 5,537.35
PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476	factor	_
PR14	Wholesale water allowed revenue per customer excluding capital connection charges, other income and operating income Wholesale water allowed revenue per customer - 2017/18 year average CPIH deflated - water	-	£ £m	168.19 193.02
		4.4470		100.02
PR14	Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income	1.1476 -	factor £	158.26
PR14	Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated - Wastewater		£m	181.62
This sect	on calculates the PR19 customer numbers and indexes the nominal revenue requirement			
PR19	Households connected for water only - unmetered	-	000s	18.93
	Households connected for water only - metered Total households - Water only	-	000s 000s	33.75 52.68
PR19	Households connected for water and sewerage - unmetered	_	000s	1,501.17
PR19	Households connected for water and sewerage - metered Total households - Water & Wastewater	-	000s	2,208.90
			000s	3,710.07
	Households connected for sewerage only - unmetered Households connected for sewerage only - metered	-	000s 000s	553.09 1,526.12
PR19	Total households - Wastewater only		000s	2,079.20
	Total households - Water only	-	000s	52.68
	Total households - Water & Wastewater Total households - Water	-	000s 000s	3,710.07 3,762.75
PR19	Total households - Wastewater only	_	000s	2,079.20
PR19	Total households - Water & Wastewater	-	000s	3,710.07
PR19	Total households - Wastewater		000s	5,789.27
	CPI(H): Fin year average - inflate from base year 2017-18 average Revenue requirement with impact of reprofiling excl. tax charge - WR - nominal	1.1538	factor £m	- 115.07
	Revenue requirement with impact of reprofiling excl. tax charge - WR - 2017/18 year average CPIH deflated		£m	99.74
	CPI(H): Fin year average - inflate from base year 2017-18 average Revenue requirement with impact of reprofiling excl. tax charge - WN - nominal	1.1538	factor £m	- 1,005.90
	Revenue requirement with impact of reprofiling excl. tax charge - WN - 2017/18 year average CPIH deflated		£m	871.82
	CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	-
	Revenue requirement with impact of reprofiling excl. tax charge - WWN - nominal Revenue requirement with impact of reprofiling excl. tax charge - WWN - 2017/18 year average CPIH deflated	-	£m £m	905.29 784.62
	CPI(H): Fin year average - inflate from base year 2017-18 average	1.1538	factor	-
	Revenue requirement with impact of reprofiling excl. tax charge - BR - nominal Revenue requirement with impact of reprofiling excl. tax charge - BR - 2017/18 year average CPIH deflated	-	£m £m	203.12 176.05
	Revenue requirement with impact of reprofiling excl. tax charge - WR - 2017/18 year average CPIH deflated	-	£m	99.74
	Revenue requirement with impact of reprofiling excl. tax charge - WN - 2017/18 year average CPIH deflated Total revenue requirement - water - 2017/18 year average CPIH deflated	-	£m £m	871.82 971.56
PR19	Revenue requirement with impact of reprofiling excl. tax charge - WWN - 2017/18 year average CPIH deflated	-	£m	784.62
	Revenue requirement with impact of reprofiling excl. tax charge - BR - 2017/18 year average CPIH deflated Total revenue requirement - wastewater - 2017/18 year average CPIH deflated	-	£m £m	176.05 960.67
	ion calculates the change in the bill due to the change in customer numbers and apportionment			
Water				
PR19	the weighted average apportionment for water (water resources and water network) Total revenue requirement - water - 2017/18 year average CPIH deflated	-	£m	971.56
	Revenue requirement with impact of reprofiling excl. tax charge - WR - 2017/18 year average CPIH deflated Water resources- residential apportionment CALC	-	£m %	99.74 76.60 %
	Revenue requirement with impact of reprofiling excl. tax charge - WN - 2017/18 year average CPIH deflated Water network - residential apportionment CALC	-	£m %	871.82 75.57%
	Weighted average residential apportionment - Water		%	75.68%
	the % change in customer numbers and apportionment combined		000-	0.005.40
	Total households - Water Total households - Water	- -	000s 000s	3,605.12 3,762.75
	PR19 households as a % of PR14 households - Water		000s	104.37%
	Wholesale Water - household apportionment calculated Weighted average residential apportionment - Water	-	% %	78.59% 75.68%
FIXIS	PR19 apportionment as a % of PR14 apportionment - Water	-	000s	96.30%
	PR19 households as a % of PR14 households - Water	-	000s	1.04
	PR19 apportionment as a % of PR14 apportionment - Water PR19 customer numbers and apportionment as a % of PR14 customer numbers and apportionment	-	000s %	0.96 92.26%
DD 1 1				
PK14	Wholesale water allowed revenue per customer - 2017/18 year average CPIH deflated - water PR19 customer numbers and apportionment as a % of PR14 customer numbers and apportionment	-	£m %	193.02 92.26%
	Change in wholesale water allowed revenue per customer due to change in customer numbers and apportionment		£m	(14.93)
This sect Wastewa	ion calculates the change in the bill due to the change in customer numbers and apportionment Iter			
	the weighted average apportionment for wastewater (bio resources and wastewater network) Company type switch	^	= WaSC, 1 :	= WoC
	Total revenue requirement - wastewater - 2017/18 year average CPIH deflated	- 0 -	£m	960.67
FK19	Revenue requirement with impact of reprofiling excl. tax charge - WWN - 2017/18 year average CPIH deflated	-	£m	784.62

Page 24 of 31 Sheet:Customers

PR19 Wastewater network - residential apportionment CALC	-	% 80.43%	
PR19 Revenue requirement with impact of reprofiling excl. tax charge - BR - 2017/18 year average CPIH deflated	-	£m 176.05	
PR19 Bio resources - residential apportionment CALC	-	% 80.43%	
PR19 Weighted average residential apportionment - Wastewater		% 80.43%	
Calculate the % change in customer numbers and apportionment combined			
Company type switch	- 0 = WaS	C, 1 = WoC	
PR14 Total households - Wastewater	- 0	00s 5,537.35	
PR19 Total households - Wastewater	- 0	00s 5,789.27	
PR19 households as a % of PR14 households - Wastewater		% 104.55%	
Company type switch	- 0 = WaS	C, 1 = WoC	
PR14 Wholesale Wastewater - household apportionment calculated	-	% 82.00%	
PR19 Weighted average residential apportionment - Wastewater	-	% 80.43%	
PR19 apportionment as a % of PR14 apportionment - Wastewater		% 98.08%	
Company type switch	- 0 - Was	C, 1 = WoC	
PR19 households as a % of PR14 households - Wastewater	- 0 = Wa3	% 104.55%	
PR19 apportionment as a % of PR14 apportionment - Wastewater	_	% 98.08%	
PR19 customer numbers and apportionment as a % of PR14 customer numbers and apportionment		% 93.81%	
FK 19 customer numbers and apportionment as a % of FK14 customer numbers and apportionment		70 93.0170	
PR14 Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated - Wastewater	-	£m 181.62	
PR19 customer numbers and apportionment as a % of PR14 customer numbers and apportionment	-	% 93.81%	
Change in wholesale wastewater allowed revenue per customer due to change in customer numbers and apportionment		£m (11.24)	
Sum the change due to customer numbers for water and wastewater.			
Change in wholesale water allowed revenue per customer due to change in customer numbers and apportionment	-	£m (14.93)	
Change in wholesale wastewater allowed revenue per customer due to change in customer numbers and apportionment	-	£m (11.24)	
Change in customer numbers and residential apportionment		£ (26.17)	
nd of sheet			
Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated - TTT only (2012/13 prices)		32.76	
Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated - excl TTT (2012/13 prices)		125.50	
Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated	1.1476		
Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated - TTT only (2017/18 CPIH prices)		37.60	
Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated - excl TTT (2017/18 CPIH prices)		144.02	
PR19 customer numbers and apportionment as a % of PR14 customer numbers and apportionment		93.81%	
Change in wholesale wastewater allowed revenue per customer due to change in customer numbers and apportionment - TTT only		(2.33)	
Change in wholesale wastewater allowed revenue per customer due to change in customer numbers and apportionment - excl TTT		(8.91)	
Change in wholesale wastewater allowed revenue per customer due to change in customer numbers and apportionment - Total incl TTT Check		(11.24) -	

Page 25 of 31 Sheet:Summary_Calc

Summary_Calc



	Constant	Unit	Value	Note	
SUMMARY OF COMPONENTS CAUSING CHANGE IN BILL					
Note: In the PR14 model wholesale prices are indexed but retail prices are not indexed. Deflate the wholesale allowed revenue, then add to the real retail allowed revenue to calculate the combined bill					
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Wholesale water allowed revenue per customer excluding capital connection charges, other income and operating income PR14 Wholesale water allowed revenue per customer - 2017/18 year average CPIH deflated	1.1476	factor £ £	168.19 193.02		
PR14 Adjustment from 2012/13 year average RPI to 2017/18 year average CPIH deflated PR14 Wholesale Wastewater allowed revenue per customer excluding capital connection charges, other income and operating income	1.1476	factor £	- 158.26		
PR14 Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated Company type switch	_	£ 0 = WaSC, 1 =	181.62 WoC		
PR14 Retail allowed revenue per customer: single service PR14 Wholesale water allowed revenue per customer - 2017/18 year average CPIH deflated	-	£	27.09 193.02		
PR14 Retail allowed revenue per customer: joint services PR14 Wholesale Wastewater allowed revenue per customer - 2017/18 year average CPIH deflated PR14 Average combined bill - 2017/18 year average CPIH deflated	-	£ £	35.22 181.62 409.86		
Company type switch	-	0 = WaSC, 1 =	WoC		
PR19 WoC average bill - real PR19 WaSC average bill - real PR19 Average bill - real	-	£	378.08 378.08		
PR14 Average combined bill - 2017/18 year average CPIH deflated PR19 Average bill - real	-	£	409.86 378.08		
Change in average combined bill		£	(31.78) 35.27		
PR14 Wholesale dummy control allowed revenue - real PR19 Wholesale dummy control allowed revenue (excluding capital connection charges, other income and operating income) per residential customer - real Change in wholesale dummy control allowed revenue	-	£/cust £ £	17.91 (17.37)		
**************************************	**************	******* £	(31.78)		Wate
Change in customer numbers and residential apportionment Change in retail CTS PR19 Residential retail revenue adjustment per customer - real		£ £ £/cust	(26.17) (0.38) (3.532)		
Change in wholesale dummy control allowed revenue Change due to changes in the components of wholesale allowed revenue (per customer)	-	£	(17.369) 15.675		
Wholesale components have been calculated as £m, apportion them to get £ per customer	****	*****	*****		
Change in PAYG Totex due to change in PAYG% Change in PAYG Totex due to change in Totex	-	£m £m	(207.15) 250.09		
Change in RCV depreciation due to change in run-off rate Change in RCV depreciation due to change in RCV Change in return on RCV due to change in WACC	-	£m £m £m	(58.85) 99.32 (80.54)		
Change in return on RCV due to change in RCV Change in other wholesale items	-	£m £m	90.88 (19.86)		
Change in wholesale reconciliation items Change due to all wholesale changes except customer numbers	-	£m £m	0.38 74.27		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers	-	£ £m	15.68 74.27		
Change in PAYG Totex due to change in PAYG% Change in PAYG% (per customer)	-	£m £	(207.15) (36.92)		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers	-	£ £m	15.68 74.27		
Change in PAYG Totex due to change in Totex Change in Totex (per customer)	-	£m £	250.09 43.72		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers Change in RCV depreciation due to change in run-off rate Change in Run-off rate (per customer)		£ £m £m £	15.68 74.27 (58.85) (8.29)		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers Change in RCV depreciation due to change in RCV		£ £m £m	15.68 74.27 99.32		
Change in RCV depreciation due to change in RCV (per customer) Change due to changes in the components of wholesale allowed revenue (per customer)	-	£	17.95 15.68		
Change due to all wholesale changes except customer numbers Change in return on RCV due to change in WACC Change in WACC (per customer)	-	£m £m £	74.27 (80.54) (13.50)		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers Change in return on RCV due to change in RCV Change in Return on RCV due to change in RCV (per customer)	- - -	£ £m £m £	15.68 74.27 90.88 16.54		
Change in RCV depreciation due to change in RCV (per customer) Change in Return on RCV due to change in RCV (per customer)	-	£	17.95 16.54		
Change in RCV (per customer)		£	34.49		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers Change in other wholesale items Change in Other wholesale items (per customer)		£ £m £m £	15.68 74.27 (19.86) (3.54)		
Change due to changes in the components of wholesale allowed revenue (per customer) Change due to all wholesale changes except customer numbers Change in wholesale reconciliation items	-	£ £m £m	15.68 74.27 0.38		
Change in Wholesale reconciliations items (per customer)		£	(0.29)		
Change in Wholesale reconciliations items (per customer) PR19 Residential retail revenue adjustment per customer - real Change in Reconciliations items (per customer)	-	£ / cust £	(0.29) (3.53) (3.82)		
Change in wholesale dummy control allowed revenue Change in 5th control	-	£	(17.37) -1737%		
Change in RCV Change in Totex	1	£	34.49 43.72		
Change in PoteX Change in PAYG% Change in Run-off rate		£	(36.92) (8.29)		
Change in WACC Change in Other wholesale items	-	£	(13.50) (3.54)		
Change in Reconciliations items Change due to all wholesale changes except customer numbers (per customer)		£	(3.82) 12.14		
Change due to all wholesale changes except customer numbers (per customer) Change due to changes in the components of wholesale allowed revenue (per customer) Sum of wholesale items after apportionment equals change in customer bill less retail items	-	£ £ check	15.68 15.68		
End of sheet					
Alternative calculation of bill impact Change due to changes in the components of wholesale allowed revenue (per customer)			15.675		
Revenue changes - Total Change in PAYG Totex due to change in PAYG%			(207.150)		
Change in PAYG Totex due to change in Totex Change in RCV depreciation due to change in run-off rate			250.087 (58.849)		
Change in RCV depreciation due to change in RCV Change in return on RCV due to change in WACC			99.319 (80.537)		
Change in return on RCV due to change in RCV Change in other wholesale items Change in wholesale reconciliation items			90.882 (19.860) 0.375		
Change due to all wholesale changes except customer numbers			74.269		
Revenue changes - Water Change in PAYG Totex due to change in PAYG% Change in PAYG Totex due to change in Totex			(130.821) 144.382		
Change in RCV depreciation due to change in run-off rate Change in RCV depreciation due to change in RCV			(1.843) 66.686		
Change in return on RCV due to change in WACC Change in return on RCV due to change in RCV Change in other wholesels items			(37.102) 62.938		
Change in other wholesale items Change in wholesale reconciliation items Change due to all wholesale changes except customer numbers			(12.569) (5.544) 86.129		
Revenue changes - Wastewater					
Change in PAYG Totex due to change in PAYG% Change in PAYG Totex due to change in Totex Change in RCV depreciation due to change in run-off rate			(76.329) 105.705 (57.005)		
Change in RCV depreciation due to change in RCV Change in RCV depreciation due to change in RCV			32.633		

Waste

17.323

(130.82) 144.38

(1.84) 66.69 (37.10) 62.94

(12.57) (5.54) 86.13

17.32 86.13 (130.82) (26.31)

17.32

86.13 144.38 29.04

17.32 86.13 (1.84) (0.37)

17.32 86.13 66.69 13.41

17.32 86.13 (37.10) (7.46)

17.32 86.13 62.94 12.66

17.32 86.13 (12.57) (2.53)

17.32 86.13 (5.54) (1.11) Com

(1.648) 1

(76.33) (2 105.70 2

(57.01) 32.63 (43.43) 27.94

(7.29) 5.92

(1.65) (11.86) (76.33) (10.60)

(1.65)

(1.65) (11.86) (57.01) (7.92)

(1.65) (11.86) 32.63 4.53

(1.65) (11.86) (43.43)

(6.03)

(1.65) (11.86) 27.94 3.88

(1.65) (11.86) (7.29) (1.01)

(1.65) (11.86) 5.92 0.82

(11.86) 105.70 2 14.69 Page 26 of 31 Sheet:Summary_Calc

Change in return on RCV due to change in WACC	(43.435)
Change in return on RCV due to change in RCV	27.944
Change in other wholesale items	(7.291
Change in wholesale reconciliation items	5.919
Change due to all wholesale changes except customer numbers	(11.859
Revenue changes - Check	
Change in PAYG Totex due to change in PAYG%	<u>-</u>
Change in PAYG Totex due to change in Totex	<u>-</u>
Change in RCV depreciation due to change in run-off rate	-
Change in RCV depreciation due to change in RCV	-
Change in return on RCV due to change in WACC	<u>-</u>
Change in return on RCV due to change in RCV	-
Change in other wholesale items	-
Change in wholesale reconciliation items	0.000
Change due to all wholesale changes except customer numbers	0.000
PD40 Weight also are a self-balled and all was a fine and a Weight	75.000
PR19 Weighted average residential apportionment - Water	75.68%
PR19 Total households - Water	3,762.746
Factor to convert revenue into bills - Water	0.201
PR19 Weighted average residential apportionment - Wastewater	80.43%
PR19 Total households - Wastewater	5,789.272
Factor to convert revenue into bills - Wastewater	0.139
Bill changes - Water	
Change in PAYG Totex due to change in PAYG%	(26.311
Change in PAYG Totex due to change in Totex	29.039
Change in RCV depreciation due to change in run-off rate	(0.371
Change in RCV depreciation due to change in RCV	13.412
Change in return on RCV due to change in WACC	(7.462
Change in return on RCV due to change in RCV	12.658
Change in other wholesale items	(2.528
Change in wholesale reconciliation items	(1.115
Change due to all wholesale changes except customer numbers	17.323
Bill changes - Wastewater	
Change in PAYG Totex due to change in PAYG%	(10.604
Change in PAYG Totex due to change in Totex Change in PAYG Totex due to change in Totex	14.685
Change in RCV depreciation due to change in run-off rate	(7.920
Change in RCV depreciation due to change in RCV	4.534
Change in return on RCV due to change in WACC	(6.034
Change in return on RCV due to change in RCV	3.882
Change in other wholesale items	(1.013
Change in wholesale reconciliation items	0.822
Change due to all wholesale changes except customer numbers	(1.648
Pill changes Total	
Bill changes - Total Change in BAYC Tatay due to change in BAYC9/	/00.04/
Change in PAYG Totex due to change in PAYG%	(36.915
Change in PAYG Totex due to change in Totex	43.724
Change in RCV depreciation due to change in run-off rate	(8.290
Change in RCV depreciation due to change in RCV	17.946
Change in return on RCV due to change in WACC	(13.496
Change in return on RCV due to change in RCV	16.54
Change in other wholesale items	(3.541
Change in wholesale reconciliation items Change due to all wholesale changes except customer numbers	(0.293 15.675
Check	0.000

Page 27 of 31 Sheet:GraphData

GraphData

[Do not insert rows or columns anywhere on this sheet]

DATA FOR BRIDGE CHART

Price base is 2017/18 year average CPIH deflated

Change in average residential bill (combined for WaSCs), £

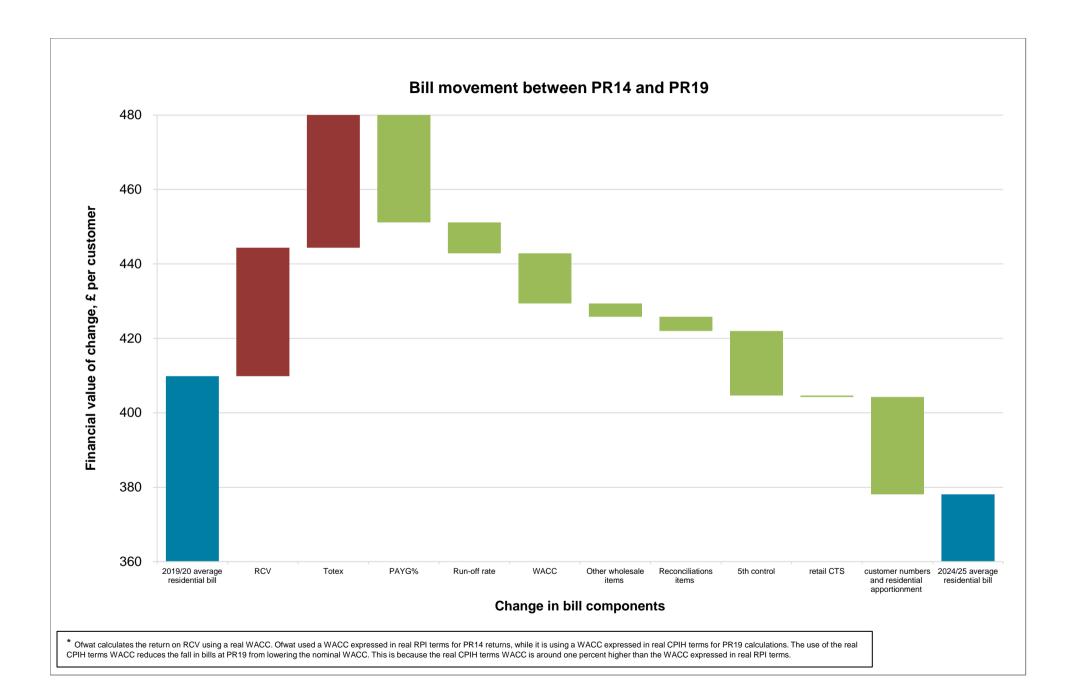
		Values Ends	Blank	Up > 0 Up -	<0 Down	n > 0 Dow	n < 0
	2019/20 average residential bill	410 4	10				
Change in RCV	RCV	34	410	34	-	-	-
Change in Totex	Totex	44	444	44	-	-	-
Change in PAYG%	PAYG%	(37)	451	-	-	37	-
Change in Run-off rate	Run-off rate	(8)	443	-	-	8	-
Change in WACC	WACC	(13)	429	-	-	13	-
Change in Other wholesale items	Other wholesale items	(4)	426	-	-	4	-
Change in Reconciliations items	Reconciliations items	(4)	422	-	-	4	-
Change in 5th control	5th control	(17)	405	-	-	17	-
Change in retail CTS	retail CTS	(0)	404	-	-	0	-
Change in customer numbers and residential apportionment	customer numbers and residential apportionment	(26)	378	-	-	26	-
	2024/25 average residential bill	3	78				

^{*} Ofwat calculates the return on RCV using a real WACC. Ofwat used a WACC expressed in real RPI terms for PR14 returns, while it is using a WACC expressed in real CPIH terms for PR19 calculations.

The use of the real CPIH terms WACC reduces the fall in bills at PR19 from lowering the nominal WACC. This is because the real CPIH terms WACC is around one percent higher than the WACC expressed in real RPI terms.

The waterfall chart reads the axes extents from this block

Axis	Х	Υ	Rounding
Maximum bill, rounded up to nearest 40		480.00	40
Minimum bill, rounded down to nearest 40		360.00	40
Tick	1	1	



Page 29 of 31 Sheet:Track

Commonwer or managed	Track	STORE TRACK	- Checks 93 Track c		93		do not del cool not del col
Board According					2 <u>Difference</u>	Diff %	
Miles Early and recover or agreement any processor and		·		Nil inputs			Nil inputs
Fig. 1 Fig. 2 Fig. 3 F	NPUTS						
Section Description Control of the company of		Retail allowed revenue per customer: single service - real	- £	15.33	1 15.3	3 -	
Section Description Control of the company of	Custom	er Numbers and apportionment					
## 1995 1995	PR19	Households connected for water only - unmetered					-
### Security of the control of the c	PR19	Households connected for sewerage only - unmetered	- 000s	553.09	1 553.0	9 -	
Fig. Common contact management of Col. 174,007 1				· ·			
1615 1615				· ·			-
Fig. 5 Processors retained responsable control of Col.	PR19	Water network - residential apportionment CALC	- %	75.57%	1 75.579	% -	-
Sept. December of professional professional and any of professional professional and any of profes		•••					
### 19 Date of the part and extended and services and command and the part of							
Fig. 2 Care An organization continues Eff. Care An organization Care An organization Care							-
First PARTY Amount Section							-
PROF. Prof.	PR19	PAYG% - water resources - active - WR	- %	55.70%	1 55.709	% -	-
PRILE Price Control 1	PR19	PAYG% - wastewater network - active - WWN	- %	43.45%	1 43.459	% -	
Fig. CRC CPITIS of Assamption (1.5) 151.05	PR19	PAYG% - bio resources - active - BR	- %	41.60%	1 41.60	% - 	
Sept. Water monotones Nov-Privice Intervenental 20			- £m	151.16	- 1 151.1	 6 -	
PRIST ACC Company	PR19	Water resources: Non-PAYG Totex - nominal	- £m	65.90	1 65.9	0 -	-
PHP	PR19	Water network: Non-PAYG Totex - nominal	- £m	627.89	1 627.8	9 -	
PRIST Borneaments Non-PARTS (Tates - normally No.		Wastewater network: Non-PAYG Totex - nominal					
Residence California							
PRIF Brazel flate - ROV - ARREST - STORY - WITH S. 1.4785					1 2.449	% -	:
PRIST Round File Company	PR19	Run-off rate - RCV additions - active - WR	- %	4.76%	1 4.769	% -	-
PRIOR Reserved Teach CPUPS February	PR19	Run-off rate - CPI(H) + RPI wedge - active - WN	- %	2.43%	1 2.439	% -	
PRIOR Reserved From CPUPH Johns 1							:
PRISTO Rauser Camping - Priston Pristo							:
PRISE Reservant Accordance PRISE	PR19	Run-off rate - CPI(H) - active - BR	- %	-			-
February							-
PRID Average of ROV port 2000 additions - VR - normal							-
PRIST Average of RCV post 2003 additions - WN - nominal							-
PRIS Average of ROV - CPIP(s) B - WWNN - nominal - Em 2,383.12 1 2,383.12 2,383.12 1 2,383.12 2,383.12 2,383.12 2,383.12 2,383.12 2,383.12 2,383.12 2,383.12 2,383.12 2,383.12 2,3							<u>:</u>
PR19 Average of RCV - CPUP(9) 14 - 88 - nominal 5m 748.98 748.98 748.99 748.9	PR19	Average of RCV - CPI(H) bf - WWN - nominal	- £m	2,363.12	1 2,363.1	2 -	-
PRESS Return on ROV - CP(H)+ 1 - WR - nominal	PR19	Average of RCV - CPI(H) bf - BR - nominal	- £m	748.98	1 748.9	- 8	-
PR19 Return on RCV - 20(Hpt) + RPI verdege bf - WN - nominal 5m 65.91 1 7.24 -	PR19 PR19						
PR18 Return on RCV - CPI(H) bf - WN - nominal							-
PR19 Return on RCV - CPI(H) + WNN - nominal	PR19		- £m	95.91	1 95.9	1 -	-
PR19 Return on RCV - CPI(H) = RPI wedge bf - WWN - nominal - Em 77.41 1 77.41 1 77.41 - PR19 Return on RCV - CPI(H) bf - BR - nominal - Em 77.41 1 77.41 - PR19 Return on RCV - CPI(H) bf - BR - nominal - Em 16.94 1 16.94 - PR19 Return on RCV - CPI(H) bf - RPI wedge bf - BR - nominal - Em 16.94 1 16.94 - PR19 Return on RCV - CPI(H) bf - RPI wedge bf - BR - nominal - Em 16.94 1 16.94 - PR19 Return on RCV - CPI(H) bf - RPI wedge bf - WWN - RPI wedge bf - RPI we	PR19	Return on RCV additions - WN - nominal	- £m	95.55	1 95.5	5 -	
PR19 Return on RCV - CPI(H) bf - BR - nominal	PR19	Return on RCV - CPI(H) + RPI wedge bf - WWN - nominal	- £m	53.77	1 53.7	7 -	
PR19 Return on RCV additions - BR - nominal							-
PRT9 WACC real on RCV - CPI(H) if and additions - WR							-
PR19 WACC real on RCV - CP(I/H) had additions - WN	PR19	WACC real on RCV - CPI(H) bf and additions - WR	- %	3.30%	1 3.30	% -	-
PR19 WACC real on RCV - CPI(H) b and additions - WWN -	PR19	WACC real on RCV - CPI(H) bf and additions - WN	- %	3.30%	1 3.30	% -	-
PR19 WACC real on RCV - CPI(H) br and additions - BR PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 WACC mall on RCV - CPI(H) + RPI wedge bf and additions - BR PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average combined bill - 2017/18 year average CPIH deflated PR19 Average bill - real Bill Movement Summary Change in Return on RCV due to change in RCV (per customer) PR19 Average in RCV depreciation due to change in RCV (per customer) PR19 Average bill - real							-
PR19 WACC on RCV - CPI(H) + RPI wedge bit and additions - BR							-
Change in customer numbers and residential apportionment - £ (26.17) 1 (26.17) - Change in retail CTS - £ (0.38) 1 (0.38) - - Change in PAYG Totex due to change in Totex - £m (207.15) 1 (207.15) - - Change in PAYG Totex due to change in Totex - £m 250.09 1 250.09 - - Change in PAYG Totex due to change in Totex - £m 250.09 1 250.09 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Change in PAYG Totex due to change in PAYG% - £ (0.38) 1 (0.38) - € Change in PAYG Totex due to change in Totex - £m (207.15) 1 250.09 - € Change in RCV depreciation due to change in run-off rate - £m (58.85) 1 (58.85) - € Change in RCV depreciation due to change in RCV - £m (99.22 1 99.32 - € Change in RCV depreciation due to change in RCV - £m (80.54) 1 (80.54) - € Change in return on RCV due to change in RCV - £m (80.54) 1 (80.54) - € Change in return on RCV due to change in RCV - £m (80.54) 1 (80.54) - € Change in return on RCV due to change in RCV - £m (9.98 1 (9.98 - € Change in Sth control - £m (19.86) 1 (19.86) - € Change in Sth control - £m (17.37) 1 (17.37) 1 (17.37) 1 (17.37) 1 (17.37) 1 (17.37)	Compor		-	,·	4	- 	
Change in PAYG Totex due to change in Totex		Change in retail CTS	- £	(0.38)	1 (0.3	- (8)	
Change in RCV depreciation due to change in run-off rate					,	,	
Change in return on RCV due to change in WACC		Change in RCV depreciation due to change in run-off rate	- £m	(58.85)	1 (58.8	- 5)	
Change in other wholesale items - £m (19.86) 1 (19.86) - £n - £m 0.38 1 0.38 - £n - £m 0.38 1 0.38 - £n - £m 0.38 1 0.38 - £n - £n (17.37) 1 (17.37) - £n - £n - £n (17.37) 1 (17.37) - £n - £n </td <td></td> <td>Change in return on RCV due to change in WACC</td> <td>- £m</td> <td>(80.54)</td> <td>1 (80.5</td> <td>- 4)</td> <td>-</td>		Change in return on RCV due to change in WACC	- £m	(80.54)	1 (80.5	- 4)	-
Change in 5th control - £ (17.37) 1 (17.37) -		Change in other wholesale items	- £m	(19.86)	1 (19.8	- 6)	
Residential revenue adjustment per customer - real - £ / cust (3.53) 1 (3.53) - -		Change in 5th control	- £	(17.37)	1 (17.3		
Bill Summary		Residential retail revenue adjustment per customer - real		(3.53)	1 (3.5	-	
PR14 Average combined bill - 2017/18 year average CPIH deflated - £ 409.86	Rill Com						<u> </u>
Bill Movement Summary	PR14	Average combined bill - 2017/18 year average CPIH deflated					
Change in average combined bill - £ (31.78) 1 (31.78) - - Change in customer numbers and residential apportionment - £ (26.17) 1 (26.17) - - Change in retail CTS - £ (0.38) 1 (0.38) - - Change in RCV depreciation due to change in RCV (per customer) - £ 17.95 1 17.95 - - Change in Return on RCV due to change in RCV (per customer) - £ 16.54 1 16.54 - - Change in PAYG% - £ (36.92) 1 (36.92) - - Change in Totex - £ 43.72 1 43.72 - -			- £	378.08	378.0		
Change in customer numbers and residential apportionment - £ (26.17) 1 (26.17) - - Change in retail CTS - £ (0.38) 1 (0.38) - - Change in RCV depreciation due to change in RCV (per customer) - £ 17.95 1 17.95 - - Change in Return on RCV due to change in RCV (per customer) - £ 16.54 1 16.54 - - Change in PAYG% - £ (36.92) 1 (36.92) - - Change in Totex - £ 43.72 1 43.72 - -	Bill Mov	· · · · · · · · · · · · · · · · · · ·	- £	(31.78)	1 (31.7	 (8) -	
Change in RCV depreciation due to change in RCV (per customer) - £ 17.95 1 17.95 - - Change in Return on RCV due to change in RCV (per customer) - £ 16.54 1 16.54 - - Change in PAYG% - £ (36.92) 1 (36.92) - - Change in Totex - £ 43.72 1 43.72 - -		· · · · · · · · · · · · · · · · · · ·	- £ - £	(26.17)	1 (26.1	,	
Change in PAYG% - £ (36.92) 1 (36.92) - Change in Totex - £ 43.72 1 43.72 - -		Change in RCV depreciation due to change in RCV (per customer)	- £	17.95	1 17.9	5 -	
		Change in PAYG%	- £	(36.92)	1 (36.9	2) -	-

Page 30 of 31 Sheet:Track

Change in RCV Change in WACC Change in Other wholesale items Change in Reconciliations items	- £ 34.49 1 34.49 £ (13.50) 1 (13.50) £ (3.54) 1 (3.82)	- - -
INFO ONLY		
Date Time File	03 Sep 2018 13:29:18 Bill-Waterfall-Model-updated-30-July ADJ TMS 8.xlsm BillModel_v0.0	18:10
[do not delete row]	range end	
Comment: Key input and logic changes Comment: Key result changes	Nil inputs	
End of sheet		

Page 31 of 31 Sheet:Check

Check

