

15 July 2020



# Introduction

This commentary accompanies the cost assessment data return of SSC submitted on 15<sup>th</sup> July 2020 covering the financial year 2019/20.

For any queries on this data return, please contact the following via email:

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# The combined entity of South Staffs Cambridge (SSC)

This data submission of SSC is a combined submission for its two operating regions, the former independent water only companies of South Staffs Water and Cambridge Water.

We have taken the approach of collecting the cost assessment performance data for each region individually. This ensures that we understand the full audit trail for each data line from each region, as some operational systems and processes remain separate since the merger. The approach also ensures we understand the differences between our two regions that can inform our operational strategy and business planning processes. Once collected at regional level, the majority of the data lines can simply be added together for the two operating regions to arrive at the SSC level value. For example lengths of mains, number of properties, number of treatment works, leakage and distribution input. For those lines which require a proportional input value then we have aggregated the data by using distribution input to determine the proportional value at the SSC level.

#### **Assurance**

We recognise the importance of the data supplied in this submission for future cost modelling and therefore we have applied our assurance framework risk assessment process to ensure that we carry sufficient governance.

A summary of the output of our assurance framework for this submission is as follows:

Risk Score											
Likelihood Score	Impact Score	Total Risk Score	Assurance Risk Category								
2	3	6	Medium								

The likelihood score is medium as much of the data uses longstanding definitions that we are familiar with and that our systems and processes are already set up to produce. Often, the data being reported is used internally for asset management purposes as well. Since the business plan submission where we found we had under-reported the number of booster pumping stations as a result of missing a definition change, we have paid extra attention to definitions for all operational data lines.

The impact score is high, as this data is an important part of creating industry wide cost assessment models.

Overall the risk score is medium. We have used our external technical auditor, Jacobs, to audit our reporting against the definitions and tracing data back to the source systems and calculations, at a regional level where appropriate. Jacob's assurance statement can be found in our published APR.

As last year we have elected to submit a commentary along with our data submission to explain (briefly where possible) how we have completed each data line. We have included more detail for data lines where we have any concerns about definitions, consistency across the industry, or where we have had to make assumptions.

### **Table commentaries**

### <u>Table 4J: Atypical expenditure by business unit – wholesale water</u>

This table mirrors table 4D apart from providing a means to report atypical items.

We have made an adjustment to line 4J.3 to report abstraction charges gross, and shown the EUIC rebate as an atypical item. As reported last year we are releasing the EUIC rebate into our annual accounts at the rate of one fifth the total rebate per year in AMP6 which is £236k per annum.

# Table 4L: Enhancement expenditure by purpose – wholesale water

The total enhancement expenditure reconciles to table 4D/4J lines 14, 15 and 16.

# Table 4P: Non-financial data for WR, WT and WD – wholesale water

Lines 1 to 8:

We have recorded the distribution input from each of our source works for each year in the return, aggregated for each type of works, and used the total SSC distribution input as the normalising variable. Where a site has not produced any water in the year then it is not contributing to the figures. Note that line 4P.8 is indicating a validation error however the specified cells do total to 1.

Note that we have a large water treatment works located on the River Severn at Hampton Loade. Two points regarding this works:

- 1. It is shared with Severn Trent who pay a contribution towards the annual operating costs and capital costs of the works. Severn Trent's take from the works is downstream of the works within our distribution system, but we have taken the SSC output of the works to be 'net' of Severn Trent's take for the purposes of these lines as our own distribution input value is also net of our bulk exports to Severn Trent from this works.
- 2. At PR14 and earlier, there was no differentiation between pumped storage and river abstractions. Our Hampton Loade works consists of a river abstraction feeding a pumped storage reservoir, however the works is also capable of direct river abstraction in the event that the pumped storage reservoir is out of service. We have not used this feature of the works in 2019/20 and so we have allocated the works output entirely to line 2 (pumped storage) and counted it only as a pumped storage works rather than a river abstraction in lines 9 to 11.

Lines 9 to 16:

We do not have any AR, ASR or saline water supply schemes. Line 16 is the sum of lines 9 through 15.

Line 17:

We have none of this type of works.

Lines 18 and 19:

We have one pumped storage reservoir located at Hampton Loade and one impounding reservoir located at Blithfield, making a total of two. The combined capacity of these reservoirs is given in line 19.

Line 20: This line is equal to line 16. The definition in RAG 4.08 appears to confuse this

line with line 21. Our reported value in line 20 does not include raw water

transport, which is reported in line 21.

Line 21: This line reports sites which have a raw water transport function to another

location on a different site, for example for further treatment. The number

reported in line 21 is distinct from the number reported in line 20.

Lines 22, 23, 69: We have undertaken a thorough review of pump capacity data for this years'

reporting, informed by data from pump replacements and capital projects.

Lines 24 and 27: These categorisations are mapped to our GIS system where mains data is

held.

Lines 25, 26, 60, 94: We have calculated the average pumping head in accordance with the latest

definition and our reported numbers are consistent with our historical

numbers.

Line 28: This line has been completed consistent with our WRMP.

Lines 29 to 57: We have reviewed the categorisation of our treatment works to the latest

definitions and allocated treated water volume accordingly. There are a number of movements across categories due to recent treatment enhancement schemes primarily due to changes in disinfection treatment

processes (UV and chlorine dosing).

Line 58: There are no schemes relevant to this line in 2019/20.

Line 59: All of the water in both regions is treated with orthophosphate with the

exception of Odsey supply zone in Cambridge, a small zone of 98 population. This zone has been deducted from the total combined population for this line.

Lines 61 to 68: Our GIS contains mains data for both regions.

Lines 70, 71, 84, 85: We have undertaken a review of the assets counted in this line and adjusted

for one water tower (Rivey) that was decommissioned this year and two that are now used as service reservoirs rather than contact tanks, due to changes in treatment processes. The tanks that have changed function are small in comparison to a typical service reservoir and so have a minimal impact on

total storage capacity.

Lines 72 to 79: These lines are reported consistent with the definitions provided and the

historical method of calculation as used in the June Return prior to 2012 and EA returns. They are therefore consistent with our AMP6 leakage and PCC reporting. Next year we will switch to reporting consistent with the revised

AMP7 leakage and PCC reporting.

Lines 80 to 82: As we do not have direct records of the material of customer communication

pipes, we have made an estimate based on the age of the main to which it is connected, and used assumptions of the materials installed in particular time periods. We have used the 2011/12 year as a baseline and fixed the number of lead and galvanised communication pipes at that point. In subsequent years we have then reduced the number of lead and galvanised CPs by identifying the number of replacements that have been undertaken either due to water quality compliance failures, at customer request, or through network renewal schemes. This is data we have available in our works

management system. We have then increased line 82, the 'other' material category, by the amount that we have replaced and also by the number of new connections we have made, which would all be of modern materials.

Line 83: This line is now identical to the revised number of booster pumping stations

reported as part of business plan query SSC-DD-CA-002 in May 2019. It would not have been appropriate to revert to our previous definition to be consistent with historical APRs when the correct interpretation of the

definition (following Ofwat clarifications) was considered.

Lines 86 to 93: Our GIS contains the date of installation for all mains and fittings, enabling us

to directly obtain this age profile.

Lines 95 to 110: The data tables instruct us to band using distribution input, whereas RAG 4.08

instructs us to band using maximum production capacity. We have therefore banded our treatment works by their rated maximum production capacity as instructed by RAG 4.08. We have used the PWPC value here for alignment with unplanned outage and to ensure we are using a robust, audited,

maximum capacity value.

### <u>Table 4Q</u>: Non-financial data – properties, population and other – wholesale water

Lines 1 to 17: We have adopted the latest definitions of residential and business properties which align with the separation of the business retail market.

Please note that we were unsure whether to include a value for lines 4Q.3 and 4Q.5 as we have exited the business retail market and so no longer bill business customers. However clearly as a wholesaler we still supply business customers and use the billing data from the market within other calculations, for example consumption and leakage reporting. We have kept in the value of billed customers that we would have reported had we not been an exited company, which can be removed at Ofwat's discretion if it is not required.

Line 18: This value is unchanged from the previous year.

Line 19: We replace lead CPs either as a result of water quality compliance failures for

lead or as a result of a customer request where the customer is also replacing their supply pipe — both of these are covered by the definition of this data line. We have records within our works management system of these

replacements, predominantly driven by customer requests.

Lines 20 to 23: In 2019/20 we had no supply side enhancement. Our demand side

enhancement consists of water efficiency activity.

Lines 24 to 26: We have allocated energy consumption on the same basis as power costs are

allocated across business units in table 4D.

Line 27: Since 2015/16 we have reported the combined business MZC as it is one of

our ODIs, which is replicated in this line.

Lines 28 and 29: CRI and ERI are to be confirmed when the DWI publish their annual Chief

Inspectors Report. These values at present are therefore draft based on our

own calculations and liaison with DWI.

Line 30: We have added together the variances to SELL for each region to populate

this data line. Note however that the two regions are independent and so

have their own leakage commitments.

# <u>Table 4V: Operating cost analysis – water resources</u>

Lines 1 to 11: The total operating expenditure excluding depreciation 4V.11 reconciles with

table 4D line 4D.9.

Lines 12 to 17: The lines have been compiled using the same data sources that feed into our

APR. Direct / Indirect splits manually reviewed in 19/20 to ensure accuracy

with RAGS. Lines 4V.14 – 4V.17 are reported net of capitalisations.

Line 18: This includes the costs of the permits. Cost of fines and inspections not

included.

Line 19: We have no Canal & River Trust Services charges or discharge consents.

Line 20: Abstraction attributed to WRE, EA discharge consents attributed to WTM.

Line 21: Remaining discharge consents attributed to WTM.

Line 22: We have no statutory water softening.



Water resource   Company Commentary   Project   Project   Company Compa	4J - Atypical expenditure by business unit - Who For the 12 months ended 31 March 2020	olesa	ie wa	iter						South Sta	ffordshire / Cambridge Water
A   Concessing expossible (seed adjected)   A   Concessing   Annual Contest   Annual Cont				Water re	esources		Netw	ork+			
1.1   Nower	Line description	Units	DPs							Total	Company commentary (if required)
1.1   Nower	Onerating expenditure (excl. atvnicals)	1									
12   Section   Processing Se		£m	3	0.000	2.279	0.920	0.000	1.135	9 724	14.058	
13		_	_								
March   Marc	š .	_	_								
Discounting expenditure   Discounting expenditure   Discount   Discounting expenditure   Disco		_	_			0.000	0.000	0.011	0.000	0.014	
15   Remains operated in year (Infrientization)   0   1   0   0   0   0   0   0   0   0											
1.7   Control operating expenditure exclusing menerals   6		£m	3	0.000	0.000	0.000	0.000	0.000	11.439	11.439	
1.8   Coal authority and Currunt rates   Cm   3   0.000   0.156   0.196   0.000   0.372   4.452   5.078	4J.6 - Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1.0   Total operating expenditure (exclusing third party services   0n   3   3.077   3.596   1.420   0.002   8.776   45.196   0.008	4J.7 - Other operating expenditure excluding renewals	£m	3	0.000	1.560	0.310	0.002	6.646	19.631	28.149	
1.00   Their party services	4J.8 Local authority and Cumulo rates	£m	3							5.078	
1.11   Total processing expenditure (page 1.4   1.4	4J.9 Total operating expenditure (excluding third party services)	£m	3	3.077	3.996	1.420	0.002	8.375	45.156	62.026	
1.11   Total processing expenditure (page 1.4   1.4											
Continue   Continue	JJ.10 Third party services										
1.4   Maintaining the long term capability of the assets - infra   5	J.11 Total operating expenditure	£m	3	3.077	4.005	1.422	0.002	9.044	46.523	64.073	
1.4   Maintaining the long term capability of the assets - infra   5											
1.13   Maintaining the long term capability of the assets - non-infra	The state of the s	_									
1.4   Other capital expenditure - Infra		_	_								
1.6   Ober capital expenditure   1.6   Ober capital expenditure   1.6   Infrastructure network reinforcement   1.6   Infrastructure network reinforcement		_	_								
1.56   Infrastructure network reinforcement		_	-								
1.17   Total gross capital expenditure excluding third party services		_	_								
Third party services		_	_								
Total gross capital expenditure	3 1 1 3 1 1	_	-								
1.20   Grants and contributions		_	_								
1.21   Totex		_	-								
C Cash expenditure (excl. atypicals)  1.22 Pension deficit recovery payments		_	_								
Pension deficit recovery payments											
1.23   Other cash items	C Cash expenditure (excl. atypicals)	1									
Totax including cash items	4J.22 Pension deficit recovery payments	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
D   Atypical expenditure     25   Abstraction charges/ discharge consents   Em   3   -0.236   0.000	4J.23 Other cash items	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Substraction charges/ discharge consents   Em   3   -0.236   0.000   0.000   0.000   0.000   0.000   -0.236   EUIC Rebate	4J.24 Totex including cash items	£m	3	3.077	6.830	1.422	0.002	11.290	74.259	96.880	
Substraction charges/ discharge consents   Em   3   -0.236   0.000											
1.26   tem 2											
1.27   tem 3	4J.25 Abstraction charges/ discharge consents	_	_	-0.236	0.000	0.000	0.000	0.000	0.000		
1.28   tem 4	J.26 Item 2	_	-								
1.29   Item 5		_	_								
1.30			_								
1.31		_	_								
1.32   Item 8		-									
1.33		_	_								
1.34		_	_								
Total expenditure   Em   3   -0.236   0.000   0.000   0.000   0.000   0.000   0.000   -0.236		_	-								
Total expenditure		_	_	-0,236	0,000	0,000	0,000	0,000	0,000		
U.36 Total expenditure Em 3 2.841 6.830 1.422 0.002 11.290 74.259 96.644 ey to cells:	I			0.200	0.000	3.500	0.000	0.000	3.300	0.200	
U.36 Total expenditure Em 3 2.841 6.830 1.422 0.002 11.290 74.259 96.644 ey to cells:	E Total expenditure	1									
y to cells:		£m.	2	2 9/1	6 820	1.422	0.002	11 200	74 250	96 644	1
	Total experiuture	ZIII	,	2.041	0.030	1.422	0.002	11.290	14.259	50.044	I
Input cell	Cey to cells:										
	Input cell										

Calculation cell



4L - Ennancement expenditure by purpose - wholesale water																	ordsnire / Cambridge water	
For the 12 months ended 31 March 2020																		
				Expenditure in report year Cumulative expenditure on schemes completed in the re								pleted in the re	port year					
Har decodation	Units		Water re	Water resources		Network+				Water re	esources	Ne'		etwork+			1	Completi
Line description	Units	DPS	Abstraction	Raw water	Raw water	Raw water	Water	Treated water	Total	Abstraction	Raw water	Raw water	Raw water	Water	Treated water	Total	Company commentary (if required)	Completi
			licences	abstraction	transport	storage	treatment	distribution		licences	abstraction	transport	storage	treatment	distribution			
A Enhancement expenditure by purpose																		
4L.1 NEP - Making ecological improvements at abstractions (Habitats Directive, SSSI, NERC, BAPs)	£m	3	0.000	0.469	0.000	0.000			0.469									
4L.2 NEP - Eels Regulations (measures at intakes)	£m	3	0.000	0.000	0.000	0.000			0.000									
4L.3 NEP - Invasive Non Native Species	£m	3	0.000	0.000	0.000	0.000			0.000	0.000								
4L.4 Addressing low pressure	£m	3	0.000	0.000	0.000	0.000			0.063	0.000						0.063		
4L.5 Improving taste / odour / colour	£m	3	0.000	0.000	0.000	0.000			0.786	0.000						0.000		
4L.6 Meeting lead standards	£m	3	0.000	0.000	0.000	0.000			0.202	0.000								
4L.7 Supply side enhancements to the supply/demand balance (dry year critical / peak conditions)	£m	3	0.000	0.000	0.000	0.000			0.000	0.000						0.000		
4L.8 Supply side enhancements to the supply/demand balance (dry year annual average conditions)	£m	3	0.000	0.000	0.000	0.000			0.000	0.000								
4L.9 Demand side enhancements to the supply/demand balance (dry year critical / peak conditions)	£m	3	0.000	0.000	0.000	0.000			0.000	0.000						0.000		
4L.10 Demand side enhancements to the supply/demand balance (dry year annual average conditions)	£m	3	0.000	0.051	0.000	0.000			0.165	0.000						0.165		
4L.11 New developments 4L.12 New connections element of new development (CPs. meters)	£m	3	0.000	0.000	0.000	0.000			9.355 4.173	0.000						9.355 4.173		
	£m	3				0.000			3.399	0.000						3.399		
4L.13 Investment to address raw water deterioration (THM, nitrates, Crypto, pesticides, others)  4L.14 Resilience	£m	3	0.000	0.836	0.000	0.000			0.000	0.000						0.000		
4L15 SFMD	£m	3	0.000	-0.008	0.000	0.000			0.000	0.000						0.603		
4L16 NEP - Drinking Water Protected Areas (schemes)	£m	3	0.000	0.000	0.000	0.000			0.003	0.000								
4L17 NEP - Water Framework Directive measure	£m	3	0.000	0.000	0.000	0.000			0.000	0.000								
4L18 NEP - Investigations	£m	3	0.000	0.000	0.000	0.000			0.000	0.000								
4L19 Improvements to river flows	£m	3	0.000	0.000	0.000	0.000			0.000	0.000								
4L20 Metering (excluding cost of providing metering to new service connections) - meters requested by optants	£m	3	0.000	0.000	0.000	0.000			2.574	0.000						2.574		
4L21 Metering (excluding cost of providing metering to new service connections)- meters introduced by companies	£m	3	0.000	0.000	0.000	0.000			0.000	0.000						0.000		
4L22 Metering (excluding cost of providing metering to new service connections) - other	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
4L23 Capital expenditure purpose - WATER additional line 1 [Other categories]	£m	3							0.000							0.000		
4L24 Capital expenditure purpose - WATER additional line 2 [Other categories]	£m	3							0.000							0.000		
4L25 Capital expenditure purpose - WATER additional line 3 [Other categories]	£m	3							0.000							0.000		
4L26 Capital expenditure purpose - WATER additional line 4 [Other categories]	£m	3							0.000							0.000		
4L27 Capital expenditure purpose - WATER additional line 5 [Other categories]	£m	3							0.000							0.000		
4L28 Capital expenditure purpose - WATER additional line 6 [Other categories]	£m	3							0.000							0.000		
4L29 Capital expenditure purpose - WATER additional line 7 [Other categories]	£m	3							0.000							0.000		
4L30 Capital expenditure purpose - WATER additional line 8 [Other categories]	£m	3							0.000							0.000		
4L31 Capital expenditure purpose - WATER additional line 9 [Other categories]	£m	3							0.000							0.000		
4L.32 Capital expenditure purpose - WATER additional line 10 [Other categories]	£m	3							0.000							0.000		
4L33 Capital expenditure purpose - WATER additional line 11 [Other categories]	£m	3							0.000							0.000		
4L34 Capital expenditure purpose - WATER additional line 12 [Other categories]	£m	3							0.000							0.000		
4L35 Capital expenditure purpose - WATER additional line 13 [Other categories]	£m	3							0.000							0.000		
4L36 Capital expenditure purpose - WATER additional line 14 [Other categories]	£m	3							0.000							0.000		
4L37 Capital expenditure purpose - WATER additional line 15 [Other categories]	£m	3							0.000							0.000		
4L38 Total enhancement capital expenditure	£m	3	0.000	1.349	0.000	0.000	3.350	17.091	21.790	0.000	1 349	0,000	0.000	2.564	17 091	21.004		

#### Key to cells:

Input cell

Calculation cell

	on-financial data for WR, WT and WD - Wholesale water months ended 31 March 2020	D				rdshire / Cambridge Water
	Line description	Bon Code	Units	DPs	Current year	Company commentary (if required)
A	Water resources					
4P.1 4P.2	Proportion of distribution input derived from impounding reservoirs	BN4833	Propn 0 to 1	3	0.173	
IP.2 IP.3	Proportion of distribution input derived from pumped storage reservoirs  Proportion of distribution input derived from river abstractions	BN4834 BN4838	Propn 0 to 1 Propn 0 to 1	3	0.266 0.000	
4P.4	Proportion of distribution input derived from groundwater works, excluding managed aquifer	BN4848	Propn 0 to 1	3	0.562	
4P.5	recharge (MAR) water supply schemes  Proportion of distribution input derived from artificial recharge (AR) water supply schemes	BN4846	Propn 0 to 1	3	0.000	
	Proportion of distribution input derived from aquifer storage and recovery (ASR) water supply					
4P.6	schemes	BN4847	Propn 0 to 1	3	0.000	
4P.7 4P.8	Proportion of distribution input derived from saline abstractions	BN4854	Propn 0 to 1 Propn 0 to 1	3	0.000	
4P.9	Proportion of distribution input derived from water reuse schemes  Number of impounding reservoirs	BN4855 BN4830	nr	0	0.000	
4P.10	Number of pumped storage reservoirs	BN4849	nr	0	1	
4P.11 4P.12	Number of river abstractions	BN4835 BN4851	nr	0	1 42	
4P.12	Number of groundwater works excluding managed aquifer recharge (MAR) water supply schemes Number of artificial recharge (AR) water supply schemes	BN4852	nr	0	0	
4P.14	Number of aquifer storage and recovery (ASR) water supply schemes	BN4853	nr	0	0	
4P.15	Number of saline abstraction schemes	BN4856	nr	0	0	
4P.16 4P.17	Total number of sources  Number of reuse schemes	BN4843 BN4857	nr	0	45 0	
4P.18	Total number of water reservoirs	BN10190	nr	0	2	
4P.19	Total capacity of water reservoirs	BN10191	MI	0	21206	
4P.20 4P.21	Total number of intake and source pumping stations  Total number of raw water transport stations	W5003 WR001	nr	0	45 7	
4P.22	Total capacity of intake and source pumping stations	W5003CAP	kW	0	8563	
4P.23	Total capacity of raw water transfer pumping stations	WR002	kW	0	1685	
4P.24 4P.25	Total length of raw water abstraction mains and other conveyors	BN10290	km m.hd	2	15.77	
4P.26	Average pumping head – raw water abstraction  Average pumping head – raw water transport	BN4861 BN4862	m.nd m.hd	2	30.13 19.19	
4P.27	Total length of raw and pre-treated (non-potable) water transport mains	BN4858	km	2	143.00	
4P.28	Water resources capacity (measured using water resources yield)	BN4859	Ml/d	2	512.97	
В	Water treatment	1				
4P.29	Total water treated at all SW simple disinfection works	CPMW0098	MI/d	2	0.00	
4P.30	Total water treated at all SW1 works	CPMW0104		2	0.00	
4P.31	Total water treated at all SW2 works	CPMW0110	MI/d	2	0.00	
4P.32	Total water treated at all SW3 works	CPMW0116		2	0.00	
4P.33 4P.34	Total water treated at all SW4 works Total water treated at all SW5 works	CPMW0165 CPMW0166		2	0.00 225.64	
4P.34 4P.35	Total water treated at all SW6 works  Total water treated at all SW6 works	CPMW0166 CPMW0167		2	0.00	
4P.36	Total water treated at all GW simple disinfection works	CPMW0027	MI/d	2	73.25	
4P.37	Total water treated at all GW1 works	CPMW0033		2	0.38	
4P.38	Total water treated at all GW2 works	CPMW0039		2	9.36	
4P.39 4P.40	Total water treated at all GW3 works  Total water treated at all GW4 works	CPMW0045 CPMW0185	MI/d MI/d	2	3.23 80.06	
4P.41	Total water treated at all GW5 works	CPMW0197		2	48.99	
4P.42	Total water treated at all GW6 works	CPMW0198		2	0.00	
4P.43	Total water treated at more than one type of works	CPMW001A		2	0.00	
4P.44	Total number of SW simple disinfection works	CPMW0015		0	0	
4P.45 4P.46	Total number of SW1 works Total number of SW2 works	BN10491 BN10490	nr	0	0	
4P.47	Total number of SW3 works	BN10590	nr	0	0	
4P.48	Total number of SW4 works	BN10597	nr	0	0	
4P.49	Total number of SW5 works	BN10598	nr	0	2	
4P.50 4P.51	Total number of SW6 works  Total number of GW simple disinfection works	BN10599 CPMW0021	nr	0	12	
4P.51	Total number of GW1 works	BN10791	nr	0	1	
4P.53	Total number of GW2 works	BN10790	nr	0	2	
4P.54	Total number of GW3 works	BN10890	nr	0	1	
4P.55	Total number of GW4 works	BN10897	nr	0	16	
4P.56	Total number of GW5 works	BN10898	nr	0	6	
4P.57 4P.58	Total number of GW6 works  Number of treatment works requiring remedial action because of raw water deterioration	BN10899 W4005	nr	0	0	
4P.59	Zonal population receiving water treated with orthophosphate	BN10901	000	3	1734.551	
4P.60	Average pumping head – water treatment	BN10902	m.hd	2	2.37	
_	Water distribution	1				
C 4P.61	Total length of potable mains as at 31 March	BN1100	km	1	8579.5	
4P.62	Total length of potable mains as at 31 watern	BN1204	km	1	0.0	
4P.63	Total length of potable mains renewed	BN1200	km	1	26.7	
4P.64	Total length of new potable mains	BN1208	km	1		
					57.3	
4P.65	Total length of potable water mains (<=320mm)	BN14990	km	1	7601.0	
4P.66	Total length of potable water mains >320mm - <=450mm	BN14990 BN14890	km km	1	7601.0 317.2	
4P.66 4P.67	Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >450mm - <=610mm	BN14990 BN14890 BN14790	km	1	7601.0 317.2 320.8	
4P.66	Total length of potable water mains >320mm - <=450mm	BN14990 BN14890 BN14790 BN14690 BN11300CA	km km km km	1	7601.0 317.2	
4P.66 4P.67 4P.68 4P.69 4P.70	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <=610mm  Total length of potable water mains > 610mm  Capacity of booster pumping stations  Capacity of booster pumping stations	BN14990 BN14890 BN14790 BN14690 BN11300CA	km km km km	1 1 1 0	7601.0 317.2 320.8 340.5 33590 495	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71	Total length of potable water mains > 320mm - <=450mm  Total length of potable water mains > 450mm <<=610mm  Total length of potable water mains > 610mm  Capacity of booster pumping stations  Capacity of service reservoirs  Capacity of vater towers	BN14990 BN14890 BN14790 BN11690 BN11900CA BN11030CA	km km km km km MI	1 1 1 0 0	7601.0 317.2 320.8 340.5 33590 495	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of swoice reservoirs  Capacity of swoice reservoirs  Capacity of water towers  Distribution input  Distribution input	BN14990 BN14890 BN14790 BN14690 BN11300CA BN10900CA BN10900CA	km km km km kw MI MI	1 1 1 0 0	7601.0 317.2 320.8 340.5 33590 495 10 388.01	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73	Total length of potable water mains > 320mm - <=450mm Total length of potable water mains > 450mm - <=610mm Total length of potable water mains > 610mm Capacity of booster pumping stations Capacity of sovice reservoirs Capacity of water towers Distribution input Water delivered (non-potable)	BN14990 BN14890 BN14790 BN14690 BN11300CA BNT1030CA BNT1030CA BN1000 BN2350	km km km km km MI	1 1 0 0 0 0 2	7601.0 317.2 320.8 340.5 33590 495 10 388.01	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of swoice reservoirs  Capacity of swoice reservoirs  Capacity of water towers  Distribution input  Distribution input	BN14990 BN14890 BN14790 BN14690 BN11300CA BN10900CA BN10900CA	km km km km kW MI MI MI MVd	1 1 1 0 0	7601.0 317.2 320.8 340.5 33590 495 10 388.01	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76	Total length of potable water mains > 320mm < <-450mm  Total length of potable water mains > 450mm < <-610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of booster pumping stations  Capacity of booster pumping stations  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered ((billed measured residential))  Water delivered ((billed measured business)	BN14990 BN14890 BN14790 BN14690 BN11300CA BN11830CA BN11000 BN2350 BN2330 BN2000 BN2010	km km km km km km kW MI MI MI/d MI/d MI/d MI/d MI/d MI/d MI/	1 1 0 0 0 2 2 2 2 2	7601.0 317.2 320.8 340.5 33590 495 10 388.01 0.00 329.08 93.95 84.62	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 450mm - <-610mm Total length of potable water mains > 610mm  Capacity of showing price water mains > 610mm  Capacity of showing reservoirs  Capacity of switch reservoirs  Capacity of switch reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured residential)  Water delivered (billed measured business) Total leakage	BN14990 BN14890 BN14690 BN14690 BN11300CA BN11030CA BN1000 BN2350 BN2350 BN2300 BN2000 BN2010 BN2345	km km km km kW MI MI MVd MVd MVd MVd MVd MVd	1 1 0 0 0 2 2 2 2 2 2	7601.0 317.2 320.8 340.5 33590 495 10 0.88.01 0.00 329.08 93.95 84.62 81.69	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 450mm - <-610mm Total length of potable water mains > 610mm Capacity of booster pumping stations Capacity of source reservoirs Capacity of water towers Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (potable) Water delivered (potable) Water delivered (potable) Total capacity of water towers Distribution input Dis	BN14990 BN14890 BN14690 BN14690 BN116900CA BN11630CA BN1000 BN2350 BN2350 BN2000 BN2000 BN2010 BN2345 BN2345	km km km km km km kW MI MI MI/d MI/d MI/d MI/d MI/d MI/d MI/	1 1 0 0 0 2 2 2 2 2	7601.0 317.2 320.8 340.5 33590 495 10 388.01 0.00 329.08 93.95 84.62 81.69 58.47	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 450mm - <-610mm Total length of potable water mains > 610mm  Capacity of showing price water mains > 610mm  Capacity of showing reservoirs  Capacity of switch reservoirs  Capacity of switch reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured residential)  Water delivered (billed measured business) Total leakage	BN14990 BN14890 BN14690 BN14690 BN11300CA BN11030CA BN1000 BN2350 BN2350 BN2300 BN2000 BN2010 BN2345	km km km km km KW MI MI MI MVd MVd MVd MVd MVd MVd MVd	1 1 0 0 0 2 2 2 2 2 2 2	7601.0 317.2 320.8 340.5 33590 495 10 0.88.01 0.00 329.08 93.95 84.62 81.69	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 450mm - <-610mm Total length of potable water mains > 610mm  Capacity of sworter pumping stations Capacity of sworter person of sworter pumping stations Capacity of sworter reservoirs  Capacity of sworter reservoirs  Capacity of sworter reservoirs  Capacity of sworter oreservoirs  Water delivered (non-potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured residential)  Water delivered (billed measured business) Total leakage Distribution losses  Distribution losses	BN14990 BN14890 BN14790 BN14690 BN11300CA BN11830CA BN1000 BN2350 BN2330 BN2000 BN2010 BN2345 BN2340 BN2340 BN2340	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2	7601.0 317.2 320.8 340.5 33590 495 10 388.01 0.00 329.08 93.95 84.62 81.69 58.47 2.89	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.80 4P.80 4P.81	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 450mm - <-610mm Total length of potable water mains > 610mm Capacity of booster pumping stations Capacity of sevice reservoirs Capacity of sevice reservoirs Capacity of water towers Distribution in put Water delivered (non-potable) Water delivered (non-potable) Water delivered (potable) Water delivered (billed measured residential) Water delivered (billed measured business) Total leakage Distribution losses Water taken unbilled Number of flera de communication pipes Number of galvanised iron communication pipes Number of galvanised iron communication pipes	BN14990 BN14890 BN14890 BN14990 BN14690 BN17800CA BN17800CA BN17800CA BN2350 BN2300 BN2200 BN2200 BN2200 BN2210 BN2340 BN2340 BN2347 BN1600 BN1600 BN1600 BN1600	km km km km km km km kW kW kW kW MI	1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0	7601.0 317.2 220.8 340.5 33590 495 10 388.01 0.00 329.08 84.62 81.69 58.47 2.89 151562 1442 428055	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.81 4P.81 4P.81	Total length of potable water mains > 320mm < <-450mm  Total length of potable water mains > 450mm < <-610mm  Total length of potable water mains > 450mm < <-610mm  Total length of potable water mains > 610mm  Capacity of swortice reservoirs  Capacity of swortice reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered (foliated measured residential)  Water delivered (foliated measured business)  Total leakage  Distribution input  Water delivered filled measured business)  Water staken unbilled  Number of lead communication pipes  Number of lead communication pipes  Number of other communication pipes	BN14990 BN14890 BN14790 BN14790 BN14790 BN11500CA BN11500CA BN1050 BN10500 BN2350 BN2350 BN2350 BN2200 BN2210 BN2210 BN2217 BN11610 BN11610 BN11620 BN11620	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0	7601.0 317.2 220.8 340.5 33590 495 10 388.01 0.00 329.08 44.62 81.69 58.47 2.89 151562 1442 428055	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.80 4P.80 4P.81 4P.82 4P.83 4P.84	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Capacity of shootser pumping stations Capacity of shootser pumping stations Capacity of shootser pumping stations Capacity of water towers Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (potable) Water delivered (billed measured residential) Water delivered (billed measured business) Total leakage Distribution losses Distribution fosses Number of lead communication pipes Number of galvanised iron communication pipes Number of bootser pumping stations Total number of boster pumping stations Total number of boster pumping stations	BN14990 BN14890 BN14790 BN14890 BN14990 BN14990 BN15900A BN1690 BN2300 BN2300 BN2000 BN2304 BN2340 BN2327 BN11690 BN11610 BN11610 BN11620 BN11620 BN11690 BN11690	km k	1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0	7601.0 317.2 220.8 340.5 349.5 10 388.01 0.00 329.08 84.62 81.69 58.47 2.89 151562 1442 428055	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.81 4P.81 4P.81	Total length of potable water mains > 320mm < <-450mm  Total length of potable water mains > 450mm < <-610mm  Total length of potable water mains > 450mm < <-610mm  Total length of potable water mains > 610mm  Capacity of swortice reservoirs  Capacity of swortice reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered (foliated measured residential)  Water delivered (filled measured residential)  Total leakage  Distribution input  Water delivered filled measured business)  Total leakage  Water staken unbilled  Number of lead communication pipes  Number of lead communication pipes  Number of other communication pipes  Number of other communication pipes  Number of other communication pipes  Total number of service reservoirs  Number of service reservoirs  Number of service reservoirs	BN14990 BN14890 BN14790 BN14790 BN14790 BN11500CA BN11500CA BN1000 BN1250 BN2350 BN2350 BN2350 BN2200 BN2200 BN2210 BN2217 BN2150 BN2217 BN11610 BN11610 BN11620 BN11620	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0	7601.0 317.2 220.8 340.5 33590 495 10 388.01 0.00 329.08 44.62 81.69 58.47 2.89 151562 1442 428055	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.80 4P.80 4P.81 4P.82 4P.82 4P.84 4P.85	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Capacity of shootser pumping stations Capacity of shootser pumping stations Capacity of shootser pumping stations Capacity of water towers Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (potable) Water delivered (billed measured residential) Water delivered (billed measured business) Total leakage Distribution losses Distribution fosses Number of lead communication pipes Number of galvanised iron communication pipes Number of bootser pumping stations Total number of boster pumping stations Total number of boster pumping stations	BN14990 BN14890 BN14790 BN14790 BN14790 BN11390CA BN11390CA BN11390CA BN11890CA BN11890CA BN11890CA BN2330 BN2330 BN2330 BN2200 BN2345 BN2345 BN2347 BN11600 BN11610 BN11610 BN11610 BN11690 BN11990 BN11990 BN11990	km kw Mil kw Mil Mild Mild Mild Mild Mild Mild Mild	1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0	7601.0   760	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.80 4P.81 4P.82 4P.83 4P.84 4P.83 4P.84 4P.84 4P.85 4P.84 4P.85 4P.86 4P.87 4P.88	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of swoice reservoirs  Capacity of swoice reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (billed measured residential)  Water delivered (billed measured residential)  Water delivered (billed measured business)  Total leakage  Distribution insese  Distribution insese  Water start of lead communication pipes  Number of glavaineed incommunication pipes  Number of other communication pipes  Total length of potable mains laid or structurally refurbished between 1881 and 1900  Total length of potable mains laid or structurally refurbished between 1901 and 1920	BN14990 BN14890 BN14790 BN14690 BN14690 BN15900-A BN10900-BN12900 BN2350 BN2300 BN2300 BN2301 BN2301 BN2340 BN2340 BN12840 BN11890 BN119090	km km km km km km km km kw Mil Mild Mild Mild Mild Mild Mild mr nr nr nr nr nr km	1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0	7601.01 7601.0	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.76 4P.76 4P.77 4P.78 4P.78 4P.80 4P.81 4P.83 4P.84 4P.84 4P.84 4P.84 4P.85 4P.84 4P.85 4P.86 4P.87 4P.88	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Capacity of booster pumping stations Capacity of service reservoirs Capacity of service reservoirs Capacity of water towers Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (potable) Water delivered (pilled measured residential) Water delivered (billed measured business) Total leakage Distribution losses Distribution input Water delivered of potable in water delivered (billed measured business) Total leakage Distribution fosses Number of galvanised iron communication pipes Number of obers communication pipes Number of booster pumping stations Total number of service reservoirs Number of water towers Sundanised iron communication pipes Number of booster pumping stations Total allength of potable mains laid or structurally refurbished between 1881 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1921 and 1940	BN14990 BN14890 BN14890 BN14890 BN14690 BN14690 BN1000 BN1000 BN230 BN230 BN230 BN200 BN230 BN200 BN2340 BN201 BN2340 BN11610 BN11610 BN11620 BN11610 BN11620 BN11630	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0	7601.01 7601.0	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.81 4P.81 4P.82 4P.83 4P.84 4P.85 4P.86 4P.86 4P.87 4P.86 4P.87 4P.86 4P.87 4P.88 4P.89	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of swortice reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured residential)  Water delivered (billed measured business)  Total leakage  Distribution insees  Distribution insees  Water taken unbilled  Number of lead communication pipes  Number of lead communication pipes  Number of other communication pipes  Total number of service reservoirs  Total instructural protable mains laid or structurally refurbished between 1881 and 1900  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1940	BN14990 BN14890 BN14790 BN14690 BN14690 BN14900 BN1000A BN1000 BN2300 BN2000 BN2010 BN2305 BN2000 BN2010 BN2340 BN11600 BN11600 BN11610 BN11620 BN11600 BN10900	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0	7601.01 7601.0	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.81 4P.81 4P.81 4P.82 4P.83 4P.84 4P.85 4P.86 4P.87 4P.88 4P.88 4P.88 4P.88 4P.88 4P.88 4P.88 4P.88 4P.88 4P.88 4P.88 4P.89	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Capacity of shootster pumping stations Capacity of shootster pumping stations Capacity of shootster pumping stations Capacity of water towers Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (potable) Water delivered (billed measured residential) Water delivered (billed measured business) Total leakage Distribution losses Distribution losses Distribution foses Number of galvanised irno communication pipes Number of galvanised irno communication pipes Number of obsert pumping stations Total number of booster pumping stations Total inches of service reservoirs Number of water towers Number of obsater towers Sumbar of water towers Total length of potable mains laid or structurally refurbished between 1881 and 1900 Total length of potable mains laid or structurally refurbished between 1921 and 1940 Total length of potable mains laid or structurally refurbished between 1921 and 1940 Total length of potable mains laid or structurally refurbished between 1921 and 1940 Total length of potable mains laid or structurally refurbished between 1941 and 1950 Total length of potable mains laid or structurally refurbished between 1941 and 1950 Total length of potable mains laid or structurally refurbished between 1941 and 1950	BN14990 BN14890 BN14890 BN14890 BN14890 BN14900 BN14900 BN10900 BN10900 BN2309 BN2010 BN2310 BN2010 BN2327 BN11800 BN2327 BN11800 BN11890 BN11990	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0	7601.01 7601.0	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.81 4P.81 4P.82 4P.83 4P.84 4P.85 4P.86 4P.86 4P.87 4P.86 4P.87 4P.86 4P.87 4P.88 4P.89	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 610mm  Capacity of swortice reservoirs  Capacity of swortice reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (foliated measured residential)  Water delivered (foliated measured residential)  Water delivered (foliated measured business)  Total leakage  Distribution tosses  Water taken unbilled  Number of lead communication pipes  Number of offers of the communication pipes  Number of offers of the communication pipes  Number of other communication pipes  Total length of potable mains laid or structurally refurbished pere-1880  Total length of potable mains laid or structurally refurbished between 1931 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1980  Total length of potable mains laid or structurally refurbished between 191 and 1980  Total length of potable mains laid or structurally refurbished between 1914 and 1980  Total length of potable mains laid or structurally refurbished between 1914 and 1980  Total length of potable mains laid or structurally refurbished between 1918 and 1980	BN14990 BN14990 BN14990 BN14990 BN14990 BN14900 BN10900 BN10900 BN2300 BN2300 BN2000 BN2300 BN2000 BN2190 BN2000 BN11900	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0	7601.01 7601.0	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.78 4P.80 4P.80 4P.81 4P.82 4P.84 4P.84 4P.85 4P.84 4P.85 4P.87 4P.88 4P.88 4P.88 4P.88 4P.88 4P.89	Total length of potable water mains > 320mm - <-450mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm Capacity of shootster pumping stations Capacity of shootster pumping stations Capacity of shootster pumping stations Capacity of water towers Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (potable) Water delivered (billed measured residential) Water delivered (billed measured business) Total leakage Distribution losses Distribution losses Distribution foses Number of galvanised irno communication pipes Number of galvanised irno communication pipes Number of obsert pumping stations Total number of booster pumping stations Total inches of service reservoirs Number of water towers Number of obsater towers Sumbar of water towers Total length of potable mains laid or structurally refurbished between 1881 and 1900 Total length of potable mains laid or structurally refurbished between 1921 and 1940 Total length of potable mains laid or structurally refurbished between 1921 and 1940 Total length of potable mains laid or structurally refurbished between 1921 and 1940 Total length of potable mains laid or structurally refurbished between 1941 and 1950 Total length of potable mains laid or structurally refurbished between 1941 and 1950 Total length of potable mains laid or structurally refurbished between 1941 and 1950	BN14990 BN14890 BN14890 BN14890 BN14890 BN14900 BN14900 BN10900 BN10900 BN2309 BN2010 BN2310 BN2010 BN2327 BN11800 BN2327 BN11800 BN11890 BN11990	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0	7601.01 7601.0	
4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.81 4P.81 4P.82 4P.83 4P.84 4P.84 4P.85 4P.89 4P.89 4P.89 4P.89 4P.99	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of swoiter pumping stations  Capacity of swoiter pumping stations  Capacity of swoiter reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured residential)  Water delivered (billed measured residential)  Water delivered (billed measured business)  Total leakage  Distribution losses  Distribution losses  Number of lead communication pipes  Number of lead communication pipes  Number of other communication pipes  Total number of potable mains laid or structurally refurbished pre-1880  Total length of potable mains laid or structurally refurbished between 1981 and 1900  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1920  Total length of potable mains laid or structurally refurbished between 191 and 1940  Total length of potable mains laid or structurally refurbished between 191 and 1940  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished between 1961 and 1980  Total length of potable mains laid or structurally refurbished b	BN14990 BN14990 BN14790 BN14790 BN14790 BN14790 BN14790 BN14800 BN1900 BN1900 BN1290 BN1290 BN2390 BN2390 BN2290 BN2290 BN2390 BN11890 BN11890 BN11890 BN11990 BN11990 BN1990 BN1	km k	1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 0	7601.01 7601.0	
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4P.68 4P.69 4P.69 4P.69 4P.70 4P.71 4P.73 4P.73 4P.74 4P.75 4P.75 4P.76 4P.81	Total length of potable water mains > 320mm - <-450mm  Total length of potable water mains > 450mm - <-610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of swortic reservoirs  Capacity of swortic reservoirs  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (potable)  Water delivered (folied measured residential)  Water delivered (folied measured residential)  Water delivered (folied measured business)  Total leakage  Distribution losses  Water taken unbilled  Number of lead communication pipes  Number of of other communication pipes  Number of other communication pipes  Total number of service reservoirs  Total length of potable mains laid or structurally refurbished pere-1880  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1921 and 1940  Total length of potable mains laid or structurally refurbished between 1921 and 1940  Total length of potable mains laid or structurally refurbished between 1911 and 1940  Total length of potable mains laid or structurally refurbished between 1911 and 1940  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains laid or structurally refurbished between 1981 and 1990  Total length of potable mains	BN14990 BN14790 BN14790 BN14790 BN14790 BN14790 BN14790 BN1900-A BN1900-A BN1900-A BN1900-BN2330 BN2090 BN2090 BN2090 BN2090 BN2090 BN2090 BN2090 BN2090 BN2090 BN3390 BN11620 BN11620 BN11620 BN11620 BN11620 BN11620 BN11620 BN11620 BN11620 BN1090 B	lown lown lown lown lown lown lown lown	1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7601.0   760	
4P.68 4P.67 4P.68 4P.69 4P.69 4P.70 4P.71 4P.73 4P.73 4P.74 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.79 4P.80 4P.81 4P.81 4P.81 4P.81 4P.82 4P.83 4P.80 4P.81	Total length of potable water mains > 320mm < < +450mm  Total length of potable water mains > 450mm < < +610mm  Total length of potable water mains > 450mm < < +610mm  Total length of potable water mains > 610mm  Capacity of booster pumping stations  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered (lilled measured residential)  Water delivered (lilled measured residential)  Water delivered (lilled measured business)  Total leakage  Distribution input  Water delivered (soled by the state of the st	BN14990 BN14990 BN14790 BN14790 BN14790 BN14790 BN14790 BN14690 BN11900 BN1250 BN2300 BN2300 BN2010 BN2301 BN2301 BN2301 BN2301 BN2301 BN2301 BN2301 BN3300 BN3301 BN3301 BN11900 BN11900 BN11900 BN10900 BN10	lown lown lown lown lown lown lown lown	1 1 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7601.0   760	
4P.68 4P.69 4P.69 4P.69 4P.70 4P.70 4P.70 4P.70 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.80 4P.81 4P.81 4P.82 4P.83 4P.84 4P.85 4P.87 4P.80 4P.81 4P.81 4P.81 4P.81 4P.82 4P.81	Total length of potable water mains > 320mm < < +450mm  Total length of potable water mains > 450mm < < +610mm  Total length of potable water mains > 450mm < < +610mm  Total length of potable water mains > 610mm  Capacity of becoater pumping stations  Capacity of water towers  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered (flield measured residential)  Water delivered (flield measured residential)  Water delivered (flield measured business)  Total leakage  Distribution input  Water delivered (silled measured business)  Number of leakage  Water taken unbilled  Number of galvanised iron communication pipes  Number of galvanised iron communication pipes  Number of galvanised iron communication pipes  Number of other communication pipes  Number of other communication pipes  Number of potable pumping stations  Total length of potable mains laid or structurally refurbished between 1881 and 1900  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1913 and 1980  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1912 and 1940  Total length of potable mains laid or structurally refurbished between 1913 and 1980  Total length of potable mains laid or structurally refurbished potable mains laid or structurally refurbished between 1913 and 1980  Total length of potable mains laid or structurally refurbished between 1913 and 1980  Total length	BN14990 BN14790 BN14790 BN14790 BN14790 BN14790 BN14790 BN14790 BN1690 BN1900 BN250 BN2300 BN2010 BN2300 BN2010 BN2301 BN2300 BN2010 BN2300 BN2010 BN2010 BN2300 BN2010 BN1090 BN11900 BN11900 BN11900 BN10900	lom	1 1 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7601.0 76	

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Data validation

Completion

#### 4Q - Non-financial data - Properties, population and other - Wholesale waßwuth Staffordshire / Cambridge Water For the 12 months ended 31 March 2020 Line description **Bon Code** Units DPs Company commentary (if required) **Current vear** A Properties and population 4Q.1 Residential properties billed for measured water (external meter) BN2110 000 3 234.519 4Q.2 Residential properties billed for measured water (not external meter) 82.586 BN2115 000 3 4Q.3 Business properties billed measured water BN2210 3 37.969 4Q.4 Residential properties billed for unmeasured water BN2100 358.215 4Q.5 Business properties billed unmeasured water BN2200 4.431 4Q.6 Total business connected properties at year end BN2221 42.649 000s 3 BN2161 699 991 4Q.7 Total residential connected properties at year end 000s 3 4Q.8 Total connected properties at year end BN1001 000 3 742.640 4Q.9 Number of residential meters renewed BN1765 000 3 4.217 4Q.10 Number of business meters renewed BN1767 0.570 4Q.11 Number of meters installed at request of optants BN1715 000 3 7.647 4Q.12 Number of selective meters installed BN1711 000 3 0.000 4Q.13 Total number of new business connections BP3405 000 3 0.210 4Q.14 Total number of new residential connections BP3400 000 5.728 4Q.15 Total population served BN2590 1734.649 4Q.16 Number of business meters (billed properties) BN11630 36.318 000 3 BN11640 327 961 4Q.17 Number of residential meters (billed properties) 000 3 4Q.18 Company area SYS03 km2 0 2672 B Other 4Q.19 Number of lead communication pipes replaced for water quality BN1231 nr 0 149 Total supply side enhancements to the supply demand balance (dry year W3007SO 2 MI/d 0.00 critical / peak conditions) Total supply side enhancements to the supply demand balance (dry year 2 0.00 W3008SO annual average conditions) Total demand side enhancements to the supply demand balance (dry W3007DO 4Q.22 MI/d 2 0.19 year critical / peak conditions) Total demand side enhancements to the supply demand balance (dry W3008DO 2 0.19 year annual average conditions) 4Q.24 Energy consumption - network plus BM902ECNP MWh 0 107747 4Q.25 Energy consumption - water resources BM902ECWR 0 20847 0 4Q.26 Energy consumption - wholesale BM102ECWW 128594 4Q.27 Mean Zonal Compliance 2 QEBW0180 99.98% 4Q.28 Compliance Risk Index QEBW0183 nr 3.6

QEBW0184

BN2341

nr

MI/d

3

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4Q.28 Event Risk Index

4Q.30 Volume of Leakage above or below the sustainable economic Level

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7.3

-2.310



4V -	4V - Operating cost analysis - water resources South Staffordshire / Cambrid Data validation													rid Data validation
	12 months ended 31 March 2020												Journal of Common	
Line	Item description	Bon Code	Unit	DPs	Impounding Reservoir	Pumped Storage	River Abstractions	Groundwater, excluding MAR water supply schemes	Artificial Recharge (AR) water supply schemes	Aquifer Storage and Recovery (ASR) water supply schemes	Other	Total	Company commentary (if required)	Compl
	resources													
A	Opex analysis				0.04	0.532	0.40	4.500	1 0000	0.000	2.222	0.070		1
4V.1	Power	BM102	£m	3	0.014							2.279		
4V.2	Income Treated as negative expenditure	BM836	£m	3	0.000							0.000		
4V.3	Abstraction charges/ discharge consents	WS1003	£m	3	0.242							2.841		
4V.4	Bulk supply	BM240	£m	3	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.003		4
_	Other operating expenditure													4
4V.5	- Renewals expensed in year (Infrastructure)	WS1005	£m	3	0.000							0.000		
4V.6	- Renewals expensed in year (Non-Infrastructure)	WS1006	£m	3	0.000							0.000		4
4V.7	Other operating expenditure excluding renewals - direct	BM108	£m	3	0.810				0.000			0.979		
4V.8	Other operating expenditure excluding renewals - indirect	BM110	£m	3	0.101							0.581		
4V.9	Total functional expenditure	BM816	£m	3	1.167			2.921	0.000			6.683		
4V.10	Local authority and Cumulo rates	BM817	£m	3	0.081	0.000	0.002	0.071	0.000	0.000	0.000	0.154		
4V.11	Total operating expenditure (excluding 3rd party)	BM316	£m	3	1.248	1.747	0.850	2.992	0.000	0.000	0.000	6.837		
4V.12	Depreciation	FT00865	£m	3	0.060	0.000	0.000	0.240	0.000	0.000	0.000	0.300		
4V.13	Total operating costs (excluding 3rd party)	BM319	£m	3	1.308	1.747	0.850	3.232	0.000	0.000	0.000	7.137		
														•
Line	Item description	BON code	Unit	DPs	Water resources	Raw water distribution	Water treatmen	Treated water distribution	Total					
В	Other expenditure - wholesale water						1			•				
4V.14	1 2	BM3010	£m	3	0.536					-				
4V.15	1 2	BM3011	£m	3	0.304	0.097	0.474	2.295		-				
4V.16	,	W3030	Nr	0	11	3	25							
4V.17	Number FTEs consistent - indirectly allocated	W3031	Nr	0	4	1 2	. 6	24	36.000					
4V.18	Costs associated with Traffic Management Act	W3032	£m	3	0.000	0.000	0.000	0.215	0.215					
C	Service charges									1				
4V.19	3 3	W3033	£m	3	0.000					-				
4V.20	3 7 3 3	W3034	£m	3	2.841									
4V.21	Other abstraction charges/ discharge consents	W3035	£m	3	0.000	0.000	0.112	0.000	0.112					

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Input cell

Calculated value

4V.22 Statutory water softening

W3036

£m

3

0.000

0.000

0.000

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0.000

0.000