

4J - Atypical expenditure by business unit - Wholesale water**Northumbrian Water**

For the 12 months ended 31 March 2019

Line description	Units	Dps	Water resources		Network+				Total	Company commentary (if required)
			Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution		
A Operating expenditure (excl. atypicals)										
4J.1 Power	£m	3	0.000	6.758	2.554	0.000	2.533	16.021	27.866	
4J.2 Income treated as negative expenditure	£m	3	0.000	-0.175	0.000	0.000	-0.303	-0.002	-0.480	
4J.3 Abstraction charges/ discharge consents	£m	3	28.005	0.017	0.000	0.000	0.290	0.000	28.312	
4J.4 Bulk supply	£m	3	0.000	0.982	0.000	0.000	0.000	0.000	0.982	
Other operating expenditure										
4J.5 - Renewals expensed in year (Infrastructure)	£m	3	0.000	1.219	0.072	0.000	0.000	2.464	3.755	
4J.6 - Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.017	0.006	0.000	0.501	0.196	0.720	
4J.7 - Other operating expenditure excluding renewals	£m	3	0.000	7.433	0.600	1.627	36.843	65.655	112.158	
4J.8 Local authority and Cumulo rates	£m	3	0.000	5.205	3.618	0.000	4.888	24.282	37.993	
4J.9 Total operating expenditure (excluding third party services)	£m	3	28.005	21.456	6.850	1.627	44.752	108.616	211.306	
4J.10 Third party services	£m	3	4.937	0.009	1.000	0.006	0.552	2.266	8.770	
4J.11 Total operating expenditure	£m	3	32.942	21.465	7.850	1.633	45.304	110.882	220.076	
B Capital expenditure (excl. atypicals)										
4J.12 Maintaining the long term capability of the assets - infra	£m	3	0.000	0.292	1.028	0.000	0.324	36.685	38.329	
4J.13 Maintaining the long term capability of the assets - non-infra	£m	3	0.000	4.636	0.294	0.000	43.483	39.277	87.690	
4J.14 Other capital expenditure - infra	£m	3	0.000	1.153	0.000	0.000	0.000	21.035	22.188	
4J.15 Other capital expenditure - non-infra	£m	3	0.000	1.722	0.000	0.000	10.350	3.591	15.663	
4J.16 Infrastructure network reinforcement	£m	3	0.000	0.000	0.000	0.000	0.000	0.655	0.655	
4J.17 Total gross capital expenditure excluding third party services	£m	3	0.000	7.803	1.322	0.000	54.157	101.243	164.525	
4J.18 Third party services	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4J.19 Total gross capital expenditure	£m	3	0.000	7.803	1.322	0.000	54.157	101.243	164.525	
4J.20 Grants and contributions	£m	3	0.000	0.000	0.000	0.000	0.042	12.727	12.769	
4J.21 Totex	£m	3	32.942	29.268	9.172	1.633	99.419	199.398	371.832	
C Cash expenditure (excl. atypicals)										
4J.22 Pension deficit recovery payments	£m	3	0.000	0.402	0.035	0.055	1.783	4.266	6.541	
4J.23 Other cash items	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4J.24 Totex including cash items	£m	3	32.942	29.670	9.207	1.688	101.202	203.664	378.373	
D Atypical expenditure										
4J.25 Item 1	£m	3							0.000	
4J.26 Item 2	£m	3							0.000	
4J.27 Item 3	£m	3							0.000	
4J.28 Item 4	£m	3							0.000	
4J.29 Item 5	£m	3							0.000	
4J.30 Item 6	£m	3							0.000	
4J.31 Item 7	£m	3							0.000	
4J.32 Item 8	£m	3							0.000	
4J.33 Item 9	£m	3							0.000	
4J.34 Item 10	£m	3							0.000	
4J.35 Total atypical expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
E Total expenditure										
4J.36 Total expenditure	£m	3	32.942	29.670	9.207	1.688	101.202	203.664	378.373	

Key to cells:

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	Calculation cell
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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance

This table is closely associated with pro forma 4D in the APR (as per RAG4).

4K - Atypical expenditure by business unit - Wholesale wastewater

Northumbrian Water

For the 12 months ended 31 March 2019

Line description	Units	DPs	Network+ Sewage Collection			Network+ Sewage Treatment		Sludge			Total	Company commentary (if required)
			Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal		
A Operating expenditure (excl. atypicals)												
4K.1 Power	£m	3	6.267	0.004	0.000	12.759	1.230	0.985	-0.769	0.000	20.476	
4K.2 Income treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	-9.820	0.000	-9.820	
4K.3 Discharge Consents	£m	3	1.743	0.000	0.000	1.915	0.000	0.000	0.000	0.000	3.658	
4K.4 Bulk discharge	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Other operating expenditure												
4K.5 - Renewals expensed in year (Infrastructure)	£m	3	1.756	2.910	1.567	0.000	0.000	0.000	0.000	0.000	6.233	
4K.6 - Renewals expensed in year (Non-Infrastructure)	£m	3	0.019	0.032	0.017	0.084	0.000	0.000	0.020	0.000	0.172	
4K.7 - Other operating expenditure excluding renewals	£m	3	0.525	14.579	7.891	27.096	0.890	2.948	10.674	1.541	66.144	
4K.8 Local authority and Cumulo rates	£m	3	0.253	0.000	0.000	7.043	0.000	0.000	1.502	0.000	8.798	
4K.9 Total operating expenditure (excluding third party services)	£m	3	10.563	17.525	9.475	48.897	2.120	3.933	1.607	1.541	95.661	
4K.10 Third party services												
4K.10 Third party services	£m	3	0.057	0.078	0.004	0.057	0.000	0.000	0.001	0.000	0.197	
4K.11 Total operating expenditure	£m	3	10.620	17.603	9.479	48.954	2.120	3.933	1.608	1.541	95.858	
B Capital expenditure (excl. atypicals)												
4K.12 Maintaining the long term capability of the assets - infra	£m	3	5.475	9.075	4.887	0.086	0.000	0.000	0.000	0.000	19.523	
4K.13 Maintaining the long term capability of the assets - non-infra	£m	3	1.965	3.258	1.754	29.403	0.000	1.108	6.912	0.000	44.400	
4K.14 Other capital expenditure - infra	£m	3	2.733	4.530	2.439	0.000	0.000	0.000	0.000	0.000	9.702	
4K.15 Other capital expenditure - non-infra	£m	3	0.528	0.875	0.471	12.062	0.000	0.000	0.000	0.000	13.936	
4K.16 Infrastructure network reinforcement	£m	3	0.128	0.213	0.114	0.000	0.000	0.000	0.000	0.000	0.455	
4K.17 Total gross capital expenditure excluding third party services	£m	3	10.829	17.951	9.665	41.551	0.000	1.108	6.912	0.000	88.016	
4K.18 Third party services	£m	3	0.057	0.078	0.004	0.057	0.000	0.000	0.001	0.000	0.197	
4K.19 Total gross capital expenditure	£m	3	10.886	18.029	9.669	41.608	0.000	1.108	6.913	0.000	88.213	
4K.20 Grants and contributions	£m	3	1.158	1.920	1.034	0.324	0.000	0.000	0.000	0.000	4.436	
4K.21 Totex	£m	3	20.348	33.712	18.114	90.238	2.120	5.041	8.521	1.541	179.635	
C Cash expenditure (excl. atypicals)												
4K.22 Pension deficit recovery payments	£m	3	0.993	0.161	0.002	1.472	0.000	0.034	0.373	0.000	3.035	
4K.23 Other cash items	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4K.24 Totex including cash items	£m	3	21.341	33.873	18.116	91.710	2.120	5.075	8.894	1.541	182.670	
D Atypical expenditure												
4K.25 Item 1	£m	3									0.000	
4K.26 Item 2	£m	3									0.000	
4K.27 Item 3	£m	3									0.000	
4K.28 Item 4	£m	3									0.000	
4K.29 Item 5	£m	3									0.000	
4K.30 Item 6	£m	3									0.000	
4K.31 Item 7	£m	3									0.000	
4K.32 Item 8	£m	3									0.000	
4K.33 Item 9	£m	3									0.000	
4K.34 Item 10	£m	3									0.000	
4K.35 Total atypical expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
E Total expenditure												
4K.36 Total expenditure	£m	3	21.341	33.873	18.116	91.710	2.120	5.075	8.894	1.541	182.670	

Key to cells:

	Input cell
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	Calculated value
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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance to this table:

This table is closely associated with pro forma 4E in the APR (as per RAG4.07).

4L - Enhancement expenditure by purpose - Wholesale water

Northumbrian Water

For the 12 months ended 31 March 2019

Line description	Units	DPs	Expenditure in report year							Cumulative expenditure on schemes completed in the report year							Company commentary (if required)
			Water resources		Network+			Total	Water resources		Network+			Total			
			Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment		Treated water distribution	Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage		Water treatment	Treated water distribution	
A Enhancement expenditure by purpose																	
4L.1 NEP - Making ecological improvements at abstractions (Habitats Directive, SSSI, NERC, BAPs)	£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	0.000
4L.2 NEP - Eels Regulations (measures at intakes)	£m	3	0.000	2.647	0.000	0.000	0.000	0.000	2.647	0.000	0.000	0.000	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	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.5 Improving taste / odour / colour	£m	3	0.000	0.000	0.000	0.000	3.645	0.000	3.645	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.6 Meeting lead standards	£m	3	0.000	0.000	0.000	0.000	0.244	3.853	4.097	0.000	0.000	0.000	0.000	0.000	3.670	3.670	
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	0.000	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	0.167	0.000	0.000	0.000	0.000	0.167	0.000	0.218	0.000	0.000	0.000	0.000	0.000	0.218
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	0.000	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	0.000	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
4L.11 New developments	£m	3	0.000	0.000	0.000	0.000	0.000	6.727	6.727	0.000	0.000	0.111	0.000	0.000	6.781	6.892	
4L.12 New connections element of new development (CPs, meters)	£m	3	0.000	0.000	0.000	0.000	0.000	6.937	6.937	0.000	0.000	0.000	0.000	0.000	6.937	6.937	
4L.13 Investment to address raw water deterioration (THM, nitrates, Crypto, pesticides, others)	£m	3	0.000	0.061	0.000	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.14 Resilience	£m	3	0.000	0.000	0.000	0.000	0.000	-0.045	-0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.15 SEMD	£m	3	0.000	0.000	0.000	0.000	6.461	0.298	6.759	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.16 NEP - Drinking Water Protected Areas (schemes)	£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	0.000
4L.17 NEP - Water Framework Directive measure	£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	0.000
4L.18 NEP - Investigations	£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	0.000
4L.19 Improvements to river flows	£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	0.000
4L.20 Metering (excluding cost of providing metering to new service connections) - meters requested by optants	£m	3	0.000	0.000	0.000	0.000	0.000	6.730	6.730	0.000	0.000	0.000	0.000	0.000	6.730	6.730	
4L.21 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	0.126	0.126	0.000	0.000	0.000	0.000	0.000	0.126	0.126	
4L.22 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	0.000
4L.23 Capital expenditure purpose - WATER additional line 1 [Other categories]	£m	3							0.000								0.000
4L.24 Capital expenditure purpose - WATER additional line 2 [Other categories]	£m	3							0.000								0.000
4L.25 Capital expenditure purpose - WATER additional line 3 [Other categories]	£m	3							0.000								0.000
4L.26 Capital expenditure purpose - WATER additional line 4 [Other categories]	£m	3							0.000								0.000
4L.27 Capital expenditure purpose - WATER additional line 5 [Other categories]	£m	3							0.000								0.000
4L.28 Capital expenditure purpose - WATER additional line 6 [Other categories]	£m	3							0.000								0.000
4L.29 Capital expenditure purpose - WATER additional line 7 [Other categories]	£m	3							0.000								0.000
4L.30 Capital expenditure purpose - WATER additional line 8 [Other categories]	£m	3							0.000								0.000
4L.31 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
4L.33 Capital expenditure purpose - WATER additional line 11 [Other categories]	£m	3							0.000								0.000
4L.34 Capital expenditure purpose - WATER additional line 12 [Other categories]	£m	3							0.000								0.000
4L.35 Capital expenditure purpose - WATER additional line 13 [Other categories]	£m	3							0.000								0.000
4L.36 Capital expenditure purpose - WATER additional line 14 [Other categories]	£m	3							0.000								0.000
4L.37 Capital expenditure purpose - WATER additional line 15 [Other categories]	£m	3							0.000								0.000
4L.38 Total enhancement capital expenditure	£m	3	0.000	2.875	0.000	0.000	10.350	24.626	37.851	0.000	0.218	0.111	0.000	0.000	24.244	24.573	

Key to cells:

- Input cell
- Calculation cell

Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional Guidance

Where a quality enhancement scheme (or the proportionally allocated component of a quality enhancement scheme) has more than one cost driver, companies should allocate the expenditure attributable to the primary driver to the relevant 4L lines 1 to 37. Any net additional cost for delivering any further drivers should be included in the relevant line.

4M - Enhancement expenditure by purpose - Wholesale wastewater

Northumbrian Water

For the 12 months ended 31 March 2019

Line description	Units	DPs	Expenditure in report year										Cumulative expenditure on schemes completed in the report year										Company commentary (if required)	
			Network+Sewage Collection			Network+Sewage Treatment		Sludge			Total	Network+Sewage Collection			Network+Sewage Treatment		Sludge			Total				
			Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal		Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal					
A	Enhancement capital expenditure by purpose																							
4M.1	First time sewerage (s101A)	£m	3	0.002	0.003	0.002	0.031	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.2	Sludge enhancement (quality)	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.3	Sludge enhancement (growth)	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.4	NEP - Conservation drivers	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.5	NEP - Eels Regulations (measures at outfalls)	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.6	NEP - Event Duration Monitoring at intermittent discharges	£m	3	0.092	0.153	0.082	0.161	0.000	0.000	0.000	0.000	0.488	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.7	NEP - Flow monitoring at sewage treatment works	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.8	NEP - Monitoring of pass forward flows at CSOs	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.9	NEP - Schemes to increase flow to full treatment	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.10	NEP - Schemes to increase storm tank capacity	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.11	NEP - Storage schemes to reduce spill frequency at CSOs, storm tanks, etc	£m	3	0.058	0.095	0.051	0.000	0.000	0.000	0.000	0.000	0.204	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.12	NEP - Chemicals monitoring/ investigations/ options appraisals	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.13	NEP - National phosphorus removal technology investigations	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.14	NEP - Groundwater schemes	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.15	NEP - Investigations	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.16	NEP - Nutrients (N removal)	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.17	NEP - Nutrients (P removal at activated sludge STWs)	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.18	NEP - Nutrients (P removal at filter bed STWs)	£m	3	0.000	0.000	0.000	5.724	0.000	0.000	0.000	0.000	5.724	0.000	0.000	0.000	2.147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.147
4M.19	NEP - Reduction of sanitary parameters	£m	3	0.000	0.000	0.000	0.354	0.000	0.000	0.000	0.000	0.354	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.20	NEP - UV disinfection (or similar)	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.21	NEP - Discharge relocation	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.22	NEP - Flow 1 schemes	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.23	Odour	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.24	New development and growth	£m	3	0.662	1.096	0.590	0.000	0.000	0.000	0.000	0.000	2.348	1.362	2.258	1.216	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.836
4M.25	Growth at sewage treatment works (excluding sludge treatment)	£m	3	0.000	0.000	0.000	5.792	0.000	0.000	0.000	0.000	5.792	0.000	0.000	0.000	8.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.095
4M.26	Resilience	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.27	SEMD	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.28	Reduce flooding risk for properties	£m	3	1.085	1.799	0.968	0.000	0.000	0.000	0.000	0.000	3.852	2.414	4.001	2.154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.569
4M.29	Transferred private sewers and pumping stations	£m	3	1.362	2.259	1.217	0.000	0.000	0.000	0.000	0.000	4.838	1.729	2.865	1.543	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.137
4M.30	Capital expenditure purpose - WASTEWATER additional line 1 [Other categories]	£m	3								0.000												0.000	
4M.31	Capital expenditure purpose - WASTEWATER additional line 2 [Other categories]	£m	3								0.000												0.000	
4M.32	Capital expenditure purpose - WASTEWATER additional line 3 [Other categories]	£m	3								0.000												0.000	
4M.33	Capital expenditure purpose - WASTEWATER additional line 4 [Other categories]	£m	3								0.000												0.000	
4M.34	Capital expenditure purpose - WASTEWATER additional line 5 [Other categories]	£m	3								0.000												0.000	
4M.35	Capital expenditure purpose - WASTEWATER additional line 6 [Other categories]	£m	3								0.000												0.000	
4M.36	Capital expenditure purpose - WASTEWATER additional line 7 [Other categories]	£m	3								0.000												0.000	
4M.37	Capital expenditure purpose - WASTEWATER additional line 8 [Other categories]	£m	3								0.000												0.000	
4M.38	Capital expenditure purpose - WASTEWATER additional line 9 [Other categories]	£m	3								0.000												0.000	
4M.39	Capital expenditure purpose - WASTEWATER additional line 10 [Other categories]	£m	3								0.000												0.000	
4M.40	Capital expenditure purpose - WASTEWATER additional line 11 [Other categories]	£m	3								0.000												0.000	
4M.41	Capital expenditure purpose - WASTEWATER additional line 12 [Other categories]	£m	3								0.000												0.000	
4M.42	Capital expenditure purpose - WASTEWATER additional line 13 [Other categories]	£m	3								0.000												0.000	
4M.43	Capital expenditure purpose - WASTEWATER additional line 14 [Other categories]	£m	3								0.000												0.000	
4M.44	Capital expenditure purpose - WASTEWATER additional line 15 [Other categories]	£m	3								0.000												0.000	
4M.45	Total enhancement capital expenditure	£m	3	3.261	5.405	2.910	12.062	0.000	0.000	0.000	23.638	5.505	9.124	4.913	10.242	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.784	

Key to cells:

- Input cell
- Calculated value

Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

4N - Sewage treatment - Functional expenditure**Northumbrian Water**

For the 12 months ended 31 March 2019

Line description	Unit	DPs	Network+	Company commentary (if required)	
A	Costs of STWs in size bands 1 to 5				
4N.1	Direct costs of STWs in size band 1	£000	3	1465.449	
4N.2	Direct costs of STWs in size band 2	£000	3	647.609	
4N.3	Direct costs of STWs in size band 3	£000	3	1633.233	
4N.4	Direct costs of STWs in size band 4	£000	3	3796.772	
4N.5	Direct costs of STWs in size band 5	£000	3	1771.892	
4N.6	General & support costs of STWs in size bands 1 to 5	£000	3	2464.109	
4N.7	Functional expenditure of STWs in size bands 1 to 5	£000	3	11779.064	
B	Costs of STWs in size band 6				
4N.8	Service charges for STWs in size band 6	£000	3	572.000	
4N.9	Estimated terminal pumping costs size band 6 works	£000	3	735.000	
4N.10	Other direct costs of STWs in size band 6	£000	3	24154.000	
4N.11	Direct costs of STWs in size band 6	£000	3	25461.000	
4N.12	General & support costs of STWs in size band 6	£000	3	6737.000	
4N.13	Functional expenditure of STWs in size band 6	£000	3	32198.000	
4N.14	Total Functional expenditure for Sewage treatment	£000	3	43977.064	

Key to cells:

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	Calculated value
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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Further to the RAWG meeting on 8 February 2018, Ofwat confirms that table 4N is a sewage treatment table and the sludge column is not applicable for 2017-18.

For 2017-18 purposes, table 4N reflects what was published in RAG 3.10. However, companies do not need to populate the sludge column.

Ofwat will make the change to table 4N as part of the RAGs consultation for 2018-19.

Additional guidance to this table:

Functional expenditure

Functional expenditure is defined as operating expenditure excluding both third party costs and Local authority and cumulo rates. This is also presented in table 4W.

Treatment works size:

For the purpose of these tables, STW size is defined by the load received by the works, expressed as mass (i.e. kilograms [kg]) of BOD₅ per day. In calculating the size of a works, commercial and residential connected population contribute 60g BOD₅/head/day and add the trade effluent load (total COD) using a conversion factor of COD:BOD of 2:1.

No allowance should be made for non-resident population when classifying the size band of a works.

Companies must include non-resident population when reporting loads and costs.

Under this classification scheme, large works are defined as those with an average daily loading >1,500kg BOD₅/day, and small works are those with an average loading <=1,500kg BO

Small works

- size band 1 <= 15kg BOD₅/day (population equivalent: 0 - 250)
- size band 2 >15 but <= 30kg BOD₅/day (population equivalent: 250 - 500)
- size band 3 >30 but <= 120kg BOD₅/day (population equivalent: 500 - 2,000)
- size band 4 >120 but <= 600kg BOD₅/day (population equivalent: 2,000 - 10,000)
- size band 5 >600 but <= 1,500kg BOD₅/day (population equivalent: 10,000 - 25,000)

Large works

- size band 6 > 1,500kg BOD₅/day (population equivalent: >25,000)

40 Large sewage treatment works - Wholesale wastewater

Top 10 works ended 31 March 2019

Site/Particulars	Site Code	SWW	SWW	STWNAME01	STWNAME02	STWNAME03	STWNAME04	STWNAME05	STWNAME06	STWNAME07	STWNAME08	STWNAME09	STWNAME10	STWNAME11	STWNAME12	STWNAME13	STWNAME14	STWNAME15	STWNAME16	STWNAME17	STWNAME18	STWNAME19	STWNAME20	STWNAME21	STWNAME22	STWNAME23	STWNAME24	STWNAME25	
A Sewage treatment works - Expenditure variables																													
401 Works name	STWNAME01	SWW	SWW	AVCLIFFE	BARKERHAUGH	BELMONT	CONSETT	BERWICK	BILLINGHAM	BIRTLEY	BISHOP OF FOLKLAND	BLTH	BRIAN SANDS FOREST	CAMBIS	CHESTERLE- STREET	CRAMLINGTON	HENDON	HORDEN	HOWDON	MARSK	NEWBIGGIN	SEAHAM	SEATON CAREW	SEDEGLETH	STRESBOLME	WASHINGTON	HEXHAM	WESTWOOD FOREST	
402 Classification of treatment works	STWNAME01	SWW	SWW	TA2	TB2																								
403 Population equivalent of total treated	STWNAME01	000	000	62 502	38 76				32 23	27 76	38 59	37 55	39 50	29 33	32 51	34 62	218 34	67 40	544 23	92 19	34 15	36 42	124 27	52 41	107 91	70 70		44 56	
404 Suspended solids consent	STWNAME01	mgd	mgd	40	75				60	50	60	50	60	35	60	250	80	60	250	60	60	250	250	60	35	50	50	60	50
405 BOD ₅ consent	STWNAME01	mgd	mgd	25	25				25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	15
406 Phosphate consent	STWNAME01	mgd	mgd	3	15				N/A	40	10	10	40	N/A	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	15	N/A	5
407 Phosphate consent	STWNAME01	mgd	mgd	2	2				N/A	N/A	2	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	
408 Nit consent	STWNAME01	mgd	mgd	N/A	N/A				2	N/A	N/A	2	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2
409 Load received by STW	STWNAME01	kg/d	kg/d	3051	208				1897	1666	2375	2053	2375	1780	1891	2102	1282	446	8666	1891	2085	2188	7465	2188	246	3465	6470	4242	2074
4010 Flow passed to full treatment	STWNAME01	g/d	g/d	11140	8507				4083	7680	11850	11443	113310	8864	7211	8610	6060	20851	237280	20851	20851	11579	10200	28564	12118	32362	17660	10579	
B Sewage treatment works - Functional expenditure																													
411 Service charges	STWNAME01	000	000	19	19				22	20	19	19	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19
412 Estimated normal pumping expenditure	STWNAME01	000	000	0	78				49	43	0	0	0	37	0	280	0	0	0	0	0	0	0	132	0	0	0	0	0
413 Other direct expenditure	STWNAME01	000	000	734	204				360	180	163	360	739	216	230	820	1464	679	2090	880	330	600	737	212	528	230	489	489	
414 Total direct expenditure	STWNAME01	000	000	753	421				443	253	182	380	759	236	267	950	1687	711	2114	898	356	676	770	464	972	340	908	908	
415 General and support expenditure	STWNAME01	000	000	210	112				100	67	48	104	2000	82	78	147	481	188	1891	243	55	180	204	120	151	82	154	134	
416 Functional expenditure	STWNAME01	000	000	143	93				243	220	230	484	959	318	345	1097	640	904	1910	411	401	856	974	584	597	770	80	662	

Key to cells
 Inset cell
 Calculated value

Please refer to RAG 4.09 - Guidelines for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance on completion of Table 40:
 Please do not amend or delete the names of wastewater treatment works in row 6.
 Any final WTW not required should have the row 7 to 22 left blank.
 Any new WTW can be added to the blank columns at the end of the WTW listed.

Additional guidance to this table:
 In accordance with RAG 4.09 (Appendix 1), relevant assets in not part of the approved business and should therefore be excluded from consideration when completing line 3.

Direct costs - Direct costs are the costs directly attributable to each of the individually identified services

General and Support expenditure - The aggregate direct cost of general and support activities is termed general and support expenditure.
 RAG2 sets out how costs should be divided across their prime cost centres. In this table, general and support costs may, where they cannot be directly attributed, require allocation so that the network's element can be identified.
 Companies should follow the guidance in RAG2 table 2.A.1 to source appropriate cost drivers for allocation.

General and support	Cost driver
Administrative	1. Analysis of staff time determined by hierarchy detailed above under employment costs
Business	2. Number of full time employees (FTEs)
Planning	
Finance	
Marketing	
Management	
Legal	
Research and development	
Information and communications	
Operational and technical	
Human resources	1. Analysis of staff time determined by hierarchy detailed above under employment costs
Personal services	2. Headcount of employees
IT and data	1. Usage of mainframe by system type
Transport	2. Number of companies
Vehicles and plant	1. Pro rata to direct allocation of vehicles and plant
Electrical and mechanical maintenance	1. Pro rata to direct allocation of electrical and mechanical maintenance
Land and property	1. Pro rata to direct allocation of land and property maintenance
Maintenance	1. Analysis of staff time determined by hierarchy detailed above under employment costs
Materials	1. Pro rata to direct allocation of materials and consumables
Licence	1. Pro rata to direct allocation of materials and consumables

Single costs expenditure above should not include any single costs

4Q - Non-financial data - Properties, population and other - Wholesale water **Northumbrian Water**

For the 12 months ended 31 March 2019

Line description	Bon Code	Units	DPs	Current year	Company commentary (if required)
A Properties and population					
4Q.1 Residential properties billed for measured water (external meter)	BN2110	000	3	753.619	
4Q.2 Residential properties billed for measured water (not external meter)	BN2115	000	3	118.363	
4Q.3 Business properties billed measured water	BN2210	000	3	82.979	
4Q.4 Residential properties billed for unmeasured water	BN2100	000	3	951.715	
4Q.5 Business properties billed unmeasured water	BN2200	000	3	7.885	
4Q.6 Total business connected properties at year end	BN2221	000s	3	108.684	
4Q.7 Total residential connected properties at year end	BN2161	000s	3	1920.908	
4Q.8 Total connected properties at year end	BN1001	000	3	2029.592	
4Q.9 Number of residential meters renewed	BN1765	000	3	19.061	More planned meter replacements on household properties contributes to the slightly higher figures than last year. The planned meter replacement programme stopped in October 2018 due to funding.
4Q.10 Number of business meters renewed	BN1767	000s	3	0.772	
4Q.11 Number of meters installed at request of optants	BN1715	000	3	21.855	
4Q.12 Number of selective meters installed	BN1711	000	3	0.338	
4Q.13 Total number of new business connections	BP3405	000	3	0.667	
4Q.14 Total number of new residential connections	BP3400	000	3	15.014	
4Q.15 Total population served	BN2590	000	3	4534.739	
4Q.16 Number of business meters (billed properties)	BN11630	000	3	85.209	
4Q.17 Number of residential meters (billed properties)	BN11640	000	3	871.982	
4Q.18 Company area	SYS03	km2	0	11806	

B Other					
4Q.19 Number of lead communication pipes replaced for water quality	BN1231	nr	0	1039	
4Q.20 Total supply side enhancements to the supply demand balance (dry year critical / peak conditions)	W3007SO	M/d	2	0.00	
4Q.21 Total supply side enhancements to the supply demand balance (dry year annual average conditions)	W3008SO	M/d	2	0.00	
4Q.22 Total demand side enhancements to the supply demand balance (dry year critical / peak conditions)	W3007DO	M/d	2	6.01	Dry year critical / peak conditions are not applicable to NWL therefore the dry year annual average figures have been substituted for Line 22.
4Q.23 Total demand side enhancements to the supply demand balance (dry year annual average conditions)	W3008DO	M/d	2	6.01	This is the sum of water efficiency savings, selective consumption and optant consumption for the year.
4Q.24 Energy consumption - network plus	BM902ECNP	MWh	0	185651	
4Q.25 Energy consumption - water resources	BM902ECWR	MWh	0	57934	
4Q.26 Energy consumption - wholesale	BM102ECWW	MWh	0	243585	
4Q.27 Mean Zonal Compliance	QEBW0180	%	2	99.95%	
4Q.28 Compliance Risk Index	QEBW0183	nr	1	4.5	
4Q.28 Event Risk Index	QEBW0184	nr	1	18.7	
4Q.30 Volume of Leakage above or below the sustainable economic Level	BN2341	M/d	3	-13.710	

Key to cells:

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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance

Lines 22 and 23 should exclude any costs incurred by the retail business unit. All demand management savings delivered in the reporting year should be included (whether for Lines 24, 25 and 26 relate to the energy costs associated with operating costs only. For consistency with the APR (Line 2B.1) this line should include all energy costs (including vehicles, plant and machinery). These lines are intended to capture energy consumed; energy exported should not be included. Energy consumption should be allocated back that is consistent with the accounting separation units, i.e. 'network +' includes raw water distribution, water treatment and treated water distribution (in line with Ofwat's Water

4R - Non-financial data - Wastewater network and sludge - Wholesale wastewater

Northumbrian Water

For the 12 months ended 31 March 2019

Line	Item description	Bon Code	Unit	DPs	Current year	Company commentary (if required)
A Wastewater network						
4R.1	Connectable properties served by s101A schemes completed in the report year	S4002	nr	0	0	
4R.2	Number of s101A schemes completed in the report year	S4002A	Nr	0	0	
4R.3	Total pumping station capacity	S4029	kW	0	44779	
4R.4	Number of network pumping stations	S6019	nr	0	957	This figure has increased by 12 since last year, all of which have been newly built/adopted.
4R.5	Total number of sewer blockages	BN13522	nr	0	12453	
4R.6	Total number of gravity sewer collapses	BN13521	nr	0	76	
4R.7	Total number of sewer rising main bursts / collapses	BN13520	nr	0	32	
4R.8	Number of combined sewer overflows	CPMS2005	nr	0	1410	
4R.9	Number of emergency overflows	CPMS2004	nr	0	262	
4R.10	Number of settled storm overflows	CPMS2014	nr	0	121	
4R.11	Sewer age profile (constructed post 2001)	BB2370	km	0	1088	
4R.12	Volume of trade effluent	CPMS2012	Ml/yr	2	8338.48	Data derived from Wholesale CMOS data
4R.13	Volume of wastewater receiving treatment at sewage treatment works	CPMS2015	Ml/yr	2	323761.69	
4R.14	Length of gravity sewers rehabilitated	BN13519	km	0	52	
4R.15	Length of rising mains replaced or structurally refurbished	BN13523	km	0	10	
4R.16	Length of foul (only) public sewers	BN13524	km	0	3068	
4R.17	Length of surface water (only) public sewers	BN13525	km	0	4474	
4R.18	Length of combined public sewers	BN13526	km	0	8387	
4R.19	Length of rising mains	BN13527	km	0	433	
4R.20	Length of other wastewater network pipework	BN13534	Km	0	198	
4R.21	Total length of "legacy" public sewers as at 31 March	BN13535	Km	0	16560	
4R.22	Length of formerly private sewers and lateral drains (s105A sewers)	BN13528	km	0	13510	Current Mapped Length = 1097.7 km
B Sludge						
4R.23	Total sewage sludge produced, treated by incumbents	BP05613	ttds/ year	1	70.2	
4R.24	Total sewage sludge produced, treated by 3rd party sludge service provider	MP05614	ttds/ year	1	0.0	
4R.25	Total sewage sludge produced	MP05611	ttds/ year	1	70.2	
4R.26	Total sewage sludge produced from non-appointed liquid waste treatment	MP05613	ttds/ year	1	1.4	See separate commentary provided
4R.27	Percentage of sludge produced and treated at a site of STW and STC co-location	MP05615	%	2	63.72%	
4R.28	Total sewage sludge disposed by incumbents	BN1623	ttds/ year	1	27.9	
4R.29	Total sewage sludge disposed by 3rd party sludge service provider	BN1622	ttds/ year	1	0.0	
4R.30	Total sewage sludge disposed	BN1621	ttds/ year	1	27.9	
4R.31	Total measure of interstiting 'work' done by pipeline	BN1640	ttds*km/year	0	0	
4R.32	Total measure of interstiting 'work' done by tanker	BN1641	ttds*km/year	0	822	
4R.33	Total measure of interstiting 'work' done by truck	BN1642	ttds*km/year	0	730	
4R.34	Total measure of interstiting 'work' done (all forms of transportation)	BN1643	ttds*km/year	0	1552	
4R.35	Total measure of interstiting 'work' done by tanker (by volume transported)	BN1644	m3*km/year	0	21334483	
4R.36	Total measure of 'work' done in sludge disposal operations by pipeline	BN1648	ttds*km/year	0	0	
4R.37	Total measure of 'work' done in sludge disposal operations by tanker	BN1645	ttds*km/year	0	0	
4R.38	Total measure of 'work' done in sludge disposal operations by truck	BN1646	ttds*km/year	0	1514	
4R.39	Total measure of 'work' done in sludge disposal operations (all forms of transportation)	BN1647	ttds*km/year	0	1514	
4R.40	Total measure of 'work' done by tanker in sludge disposal operations (by volume transported)	BN1649	m3*km/year	0	0	
4R.41	Chemical P sludge as percentage of sludge produced at STWs	MP05616	%	2	17.31%	See separate commentary provided

Key to cells:

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	Calculated value
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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance to this table:

For the purposes of reporting quantities of sludge produced (lines 4R 23 to 25), this is measured ideally at the boundary between the Network plus and Bioresources business units as defined in RAG 4 or if not, at the point of treatment. Tt measurement via instrumentation rather than by composite or spot sampling.

Where both the incumbent and a 3rd party service provider undertake different stages of sludge treatment eg dewatering followed by lime stabilisation, sludge quantities should not be doubled-counted and should be reported either in 4R I Where this situation occurs the company should report on the quantity involved and the line to which it has been allocated in the commentary.

For the purposes of reporting against 4R lines 27 and 28, sludge disposal operations for sludge recycled to farmland are assumed to end upon arrival at the field. Accordingly, no account need be taken of changes in the quantity of sludge these lines.

4T - Non-financial data - sludge treatment - Wholesale wastewater

For the 12 months ended 31 March 2019

Line	Item description	Unit	DPs	by Incumbent	by 3rd party sludge service providers	Company commentary (if required)
A	Sludge treatment process					
4T.1	% Sludge - untreated	%	1	0.0%	0.0%	
4T.2	% Sludge treatment process - raw sludge liming	%	1	0.0%	0.0%	
4T.3	% Sludge treatment process - conventional AD	%	1	0.0%	0.0%	
4T.4	% Sludge treatment process- advanced AD	%	1	100.0%	0.0%	
4T.5	% Sludge treatment process - incineration of raw sludge	%	1	0.0%	0.0%	
4T.6	% Sludge treatment process - incineration of digested sludge	%	1	0.0%	0.0%	
4T.7	% Sludge treatment process - phyto-conditioning/composting	%	1	0.0%	0.0%	
4T.8	% Sludge treatment process - other (specify)	%	1	0.0%	0.0%	
4T.9	% Sludge treatment process - Total	%	1	100.0%	0.0%	

B	(Un-incinerated) sludge disposal route					
4T.10	% Sludge disposal route - landfill, raw	%	1	0.0%	0.0%	
4T.11	% Sludge disposal route - landfill, partly treated	%	1	0.0%	0.0%	
4T.12	% Sludge disposal route - land restoration / reclamation	%	1	0.0%	0.0%	
4T.13	% Sludge disposal route - sludge recycled to farmland	%	1	100.0%	0.0%	
4T.14	% Sludge disposal route - other (specify)	%	1	0.0%	0.0%	
4T.15	% Sludge disposal route - Total	%	1	100.0%	0.0%	

Key to cells:

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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance to this table:

The quantity of sludge produced to which the percentages reported in lines 1 to 9 (inclusive) relate should be that reported in Table 4R, line 25.

4U - Non-financial data - Properties, population and other - Wholesale wastewater **Northumbrian Water**

For the 12 months ended 31 March 2019

Line	Item description	Bon Code	Unit	DPs	Current year	Company commentary (if required)
A Properties and population						
4U.1	Residential properties connected during the year	BP3410	000	3	10,390	
4U.2	Business properties connected during the year	BP3415	000	3	0,360	
4U.3	Residential properties billed unmeasured sewage	BN2130	000	3	698,218	
4U.4	Residential properties billed measured sewage	BN2140	000	3	443,466	
4U.5	Residential properties billed for sewage	BN2150	000	3	1,141,684	
4U.6	Business properties billed unmeasured sewage	BN2250	000	3	10,068	
4U.7	Business properties billed measured sewage	BN2260	000	3	42,761	
4U.8	Business properties billed for sewage	BN2270	000	3	52,829	
4U.9	Void properties	BN2285	000	3	75,431	
4U.10	Total number of properties	BN1178	000s	3	1,269,944	
4U.11	Resident population	BN2630	000	3	2631,757	
4U.12	Non-resident population	BN2620	000	3	83,770	OFWAT new guideline followed for 2018/19 to calculate non-resident population
B Other						
4U.13	Energy consumption - network plus	BM902ECNPS	MWh	3	172,692,001	
4U.14	Energy consumption - sludge	BM602EC	MWh	3	109,569,462	
4U.15	Energy consumption - wholesale	BM902ECWS	MWh	3	282,261,463	
4U.16	Population resident in National Parks, SSSIs and Areas of Outstanding Natural Beauty (AONBs)	BN1609	000s	3	58,142	
4U.17	Total sewerage catchment area	BN1176CA	km2	0	1,308	
4U.18	Designated bathing waters	BN1615	nr	0	34	
4U.19	Number of intermittent discharge sites with event duration monitoring	S4016	nr	0	39	EA agreed output for 2018/19. Number for 2017/18 reviewed and altered from 100 to 91. Note: there are intermittent discharges with EDM permits outside of the definition for this line (i.e. non-NEP with existing monitoring) with 73 in 2017/18 and 357 for 2018/19.
4U.20	Number of monitors for flow monitoring at STWs	STWM001	Nr	0	0	No new flow meters installed on STW's
4U.21	Number of odour related complaints	S4017	nr	0	1,651	This figure is the first increase seen after three consecutive years of decreases. Although the number of contacts is up 15% on the previous year, it is still lower than the 2016-17 outturn.
4U.22	Volume of storage provided at CSOs, storm tanks, etc to meet spill frequency objectives	S4026	m3	0	360	The volume in Column G was provided at Park View CSO, Chester-le-Street
4U.23	Total volume of network storage	CPMS2016	m3	0	361,1129	This figure has been inflated by approximately 1,240,000m3 of unmapped transferred drains and sewers which wasn't in previous submissions.

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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance to this table:

Non-resident population (4U Line 12)
 Non-resident population should comprise holiday and tourist population. An acceptable method of estimation would be to obtain from tourist boards estimates of the number of bed spaces available for non-residents. Except where there is firm evidence to the contrary, companies should assume a two-thirds occupancy rate for four months in the year. Non-resident population should exclude day visitors and daily commuters. Where companies have followed a different methodology, they should provide details of the approach in their commentary.

4V - Operating cost analysis - water resources

Northumbrian Water

For the 12 months ended 31 March 2019

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)
Water resources													
A Opex analysis													
4V.1	Power	BM102	£m	3	0.008	1.864	3.842	1.044	0.000	0.000	0.000	6.758	
4V.2	Income Treated as negative expenditure	BM836	£m	3	-0.175	0.000	0.000	0.000	0.000	0.000	0.000	-0.175	
4V.3	Abstraction charges/ discharge consents	WS1003	£m	3	1.499	5.892	19.427	1.204	0.000	0.000	0.000	28.022	
4V.4	Bulk supply	BM240	£m	3	0.000	0.000	0.982	0.000	0.000	0.000	0.000	0.982	
Other operating expenditure													
4V.5	- Renewals expensed in year (Infrastructure)	WS1005	£m	3	0.151	0.336	0.656	0.076	0.000	0.000	0.000	1.219	
4V.6	- Renewals expensed in year (Non-Infrastructure)	WS1006	£m	3	0.002	0.005	0.009	0.001	0.000	0.000	0.000	0.017	
4V.7	- Other operating expenditure excluding renewals - direct	BM108	£m	3	0.662	1.474	2.872	0.331	0.000	0.000	0.000	5.339	
4V.8	- Other operating expenditure excluding renewals - indirect	BM110	£m	3	0.260	0.578	1.126	0.130	0.000	0.000	0.000	2.094	
4V.9	Total functional expenditure	BM816	£m	3	2.407	10.149	28.914	2.786	0.000	0.000	0.000	44.256	
4V.10	Local authority and Cumulo rates	BM817	£m	3	1.822	1.353	0.312	1.718	0.000	0.000	0.000	5.205	
4V.11	Total operating expenditure (excluding 3rd party)	BM316	£m	3	4.229	11.502	29.226	4.504	0.000	0.000	0.000	49.461	
4V.12	Depreciation	FT00865	£m	3	0.479	0.796	0.266	1.437	0.000	0.000	0.000	2.978	
4V.13	Total operating costs (excluding 3rd party)	BM319	£m	3	4.708	12.298	29.492	5.941	0.000	0.000	0.000	52.439	

Line	Item description	BON code	Unit	DPs	Water resources	Raw water distribution	Water treatment	Treated water distribution	Total
B Other expenditure - wholesale water									
4V.14	Employment costs - directly allocated	BM3010	£m	3	3.635	0.475	13.398	36.057	53.565
4V.15	Employment costs - indirectly allocated	BM3011	£m	3	1.878	1.338	7.175	18.047	28.438
4V.16	Number FTEs consistent - directly allocated	W3030	Nr	0	69	9	263	747	1088.000
4V.17	Number FTEs consistent - indirectly allocated	W3031	Nr	0	29	21	113	283	446.000
4V.18	Costs associated with Traffic Management Act	W3032	£m	3	0.000	0.000	0.000	0.286	0.286
C Service charges									
4V.19	Canal & River Trust service charges and discharge consents	W3033	£m	3	0.000	0.000	0.000	0.000	0.000
4V.20	Environment Agency service charges/ discharge consents	W3034	£m	3	28.022	0.000	0.000	0.000	28.022
4V.21	Other abstraction charges/ discharge consents	W3035	£m	3	0.000	0.000	0.000	0.000	0.000
4V.22	Statutory water softening	W3036	£m	3	0.000	0.000	0.000	0.000	0.000

Key to cells:

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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19

Additional guidance to this table:

Artificial recharge (AR) schemes are a subset of managed aquifer recharge (MAR) schemes, which function by recharging an aquifer before or after abstraction. The water abstracted is not necessarily the water that has been recharged, so the water can be of natural quality and require more complex treatment.

Aquifer storage and recovery (ASR) schemes are a subset of managed aquifer recharge (MAR) schemes, which function by recharging an aquifer, storing that water and maintaining its quality. The aim is to enable simple and less costly treatment of the re-abstracted water, and that the water recharged is predominantly the water that is re-abstracted.

4W - Operating cost analysis - sludge transport, treatment and disposal

Northumbrian Water

For the 12 months ended 31 March 2019

Line	Item description	Unit	DPs	Pipeline	Tanker	Truck	Total
A Sludge transport method							
4W.1	Power	£m	3	0.000	0.985	0.000	0.985
4W.2	Income Treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000
4W.3	Discharge consents	£m	3	0.000	0.000	0.000	0.000
4W.4	Bulk supply	£m	3	0.000	0.000	0.000	0.000
Other operating expenditure							
4W.5	- Renewals expensed in year (Infrastructure)	£m	3	0.000	0.000	0.000	0.000
4W.6	- Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.000
4W.7	- Other operating expenditure excluding renewals - direct	£m	3	0.000	2.439	0.000	2.439
4W.8	- Other operating expenditure excluding renewals - indirect	£m	3	0.000	0.509	0.000	0.509
4W.9	Total functional expenditure	£m	3	0.000	3.933	0.000	3.933
4W.10	Local authority and Cumulo rates	£m	3	0.000	0.000	0.000	0.000
4W.11	Total operating expenditure (excluding 3rd party)	£m	3	0.000	3.933	0.000	3.933
4W.12	Depreciation	£m	3	0.000	0.845	0.000	0.845
4W.13	Total operating costs (excluding 3rd party)	£m	3	0.000	4.778	0.000	4.778

Company commentary (if required)

Line	Item description	Unit	DPs	Untreated sludge	Raw sludge liming	Conventional AD	Advanced AD	Incineration of raw sludge	Incineration of digested Sludge	Photo-conditioning / composting	Other	Total	Company commentary (if required)
B Sludge treatment type													
4W.14	Power	£m	3	0.000	0.000	0.000	-0.769	0.000	0.000	0.000	0.000	-0.769	
4W.15	Income treated as negative expenditure	£m	3	0.000	0.000	0.000	-9.820	0.000	0.000	0.000	0.000	-9.820	
4W.16	Discharge consents	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4W.17	Bulk supply	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Other operating expenditure													
4W.18	- Renewals expensed in year (Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4W.19	- Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.020	
4W.20	Other direct operating expenditure (New cods? Check def'n)	£m	3	0.000	0.000	0.000	8.433	0.000	0.000	0.000	0.000	8.433	
4W.21	Other indirect operating expenditure (new code? Check def'n.)	£m	3	0.000	0.000	0.000	2.241	0.000	0.000	0.000	0.000	2.241	
4W.22	Total functional expenditure	£m	3	0.000	0.000	0.000	0.105	0.000	0.000	0.000	0.000	0.105	
4W.23	Local authority and Cumulo rates	£m	3	0.000	0.000	0.000	1.502	0.000	0.000	0.000	0.000	1.502	
4W.24	Total operating expenditure (excluding 3rd party)	£m	3	0.000	0.000	0.000	1.607	0.000	0.000	0.000	0.000	1.607	
4W.25	Depreciation	£m	3	0.000	0.000	0.000	6.419	0.000	0.000	0.000	0.000	6.419	
4W.26	Total operating costs (excluding 3rd party)	£m	3	0.000	0.000	0.000	8.026	0.000	0.000	0.000	0.000	8.026	

Line	Item description	Unit	DPs	Landfill, raw	Landfill, partly treated	Land restoration / reclamation	Sludge recycled to farmland	Other	Total
C Sludge disposal route									
4W.27	Power	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
4W.28	Income treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
4W.29	Discharge consents	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
4W.30	Bulk supply	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
Other operating expenditure									
4W.31	- Renewals expensed in year (Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
4W.32	- Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
4W.33	Other direct operating expenditure (New cods? Check def'n)	£m	3	0.000	0.000	0.000	1.081	0.000	1.081
4W.34	Other indirect operating expenditure (new code? Check def'n.)	£m	3	0.000	0.000	0.000	0.460	0.000	0.460
4W.35	Total functional expenditure	£m	3	0.000	0.000	0.000	1.541	0.000	1.541
4W.36	Local authority and Cumulo rates	£m	3	0.000	0.000	0.000	0.000	0.000	0.000
4W.37	Total operating expenditure (excluding 3rd party)	£m	3	0.000	0.000	0.000	1.541	0.000	1.541
4W.38	Depreciation	£m	3	0.000	0.000	0.000	0.052	0.000	0.052
4W.39	Total operating costs (excluding 3rd party)	£m	3	0.000	0.000	0.000	1.593	0.000	1.593

Other expenditure - Wholesale wastewater

Line	Item description	Unit	DPs	Network plus sewage collection	Network plus sewage treatment	Sludge	Total
D Opex analysis							
4W.40	Employment costs - directly allocated	£m	3	10.794	12.547	6.414	29.755
4W.41	Employment costs - indirectly allocated	£m	3	5.409	7.769	2.773	15.951
4W.42	Number FTEs - directly allocated	Nr	0	227	271	139	637
4W.43	Number FTEs - indirectly allocated	Nr	0	85	122	44	251
4W.44	Costs associated with Traffic Management Act	£m	3	0.000	0.000	0.000	0.000
4W.45	Costs associated with Industrial Emissions Directive	£m	3	0.000	0.000	0.000	0.000
E Service charges							
4W.46	Canal & River Trust service charges and discharge consents	£m	3	0.000	0.000	0.000	0.000
4W.47	Environment Agency service charges / discharge consents	£m	3	1.743	1.915	0.000	3.658
4W.48	Other service charges / permits	£m	3	0.000	0.000	0.000	0.000

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Please refer to RAG 4.08 - Guideline for the table definitions in the annual performance report for the reporting year 2018-19