

Data summary tables for Northumbrian Water (NNE)

These tables contain a summary of results of monitoring undertaken by the water company in 2017 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled *Drinking water 2017*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.defra.gov.uk>

Notes relating to the interpretation of the tables:

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

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Site Summary Data for Northumbrian Water Ltd

Report Date Range: For the whole year 2017

Table NNE 1: Quality of water leaving treatment works - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite (Total)	A013B	0.1 mg NO ₂ /l	374	0	< 0.0011	0.007725	0
Totals:			374	0			

Table NNE 2: Quality of water leaving treatment works - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	6,364	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	6,364	1	0	0	1
Totals:			12,728	1			

Table NNE 3: Quality of water leaving treatment works - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	6,363	-n/a	0	6
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	538	-n/a	0	6
Residual Disinfectant - Free	C009	No abnormal change	6,364	-n/a	0.2	1.2
Residual Disinfectant - Total	C010	No abnormal change	6,364	-n/a	0.3665	1.29
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	-(n/a)	-(n/a)	(6,364)	-n/a	0	0.82
Turbidity - Indicator	A002A	1 nephelometric turbidity units	6,406	9	< 0.08	0.36
Totals:			26,035	9		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table NNE 4: Quality of water leaving service reservoirs - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	10,198	2	0	0	2
Total Coliforms (Confirmed)	C001	0 number/100 ml	10,198	6	0	0	0
Totals:			20,396	8			

Table NNE 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	10,197	-n/a	0	83
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	904	-n/a	0	6
Residual Disinfectant - Free	C009	No abnormal change	10,201	-n/a	< 0.03	0.97
Residual Disinfectant - Total	C010	No abnormal change	10,201	-n/a	0.06	1.07
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(10,201)	-n/a	0	0.83
Totals:			31,503	0		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table NNE 6: Quality of water leaving bulk supply points - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
1 2-Dichloroethane (Total)	F001	3 µg/l	278	0	< 0.024	< 0.07	0
Benzene (Total)	F002	1 µg/l	278	0	< 0.013	< 0.02	0
Cyanide (Total)	B003	50 µg CN/l	278	0	< 1.7	6.042	0
Mercury (Total)	B005	1 µg Hg/l	278	0	< 0.011	< 0.055	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	278	0	0	0.14878	0
Pesticides 2 4-D	P020	0.1 µg/l	278	0	< 0.0011	0.01663	0
Pesticides Aldrin	P002	0.03 µg/l	278	0	< 0.0022	< 0.0022	0
Pesticides Aminomethylphosphonic acid	P273	0.1 µg/l	279	0	< 0.0031	< 0.0176	0
Pesticides Asulam	P133	0.1 µg/l	278	0	< 0.0049	0.01042	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	278	0	< 0.0038	0.008021	0
Pesticides Bentazone	P006	0.1 µg/l	278	0	< 0.00073	0.01342	0
Pesticides Carbetamide	P010	0.1 µg/l	278	0	< 0.0018	0.02431	0
Pesticides Chlormequat	P163	0.1 µg/l	278	0	< 0.0059	< 0.0059	0
Pesticides Chlortoluron	P014	0.1 µg/l	278	0	< 0.0019	< 0.001963	0
Pesticides Clopyralid	P018	0.1 µg/l	278	0	< 0.0039	0.029	0
Pesticides Cypermethrin	P094	0.1 µg/l	277	0	< 0.0048	0.008644	0
Pesticides Diazinon	P024	0.1 µg/l	278	0	< 0.0029	< 0.0029	0
Pesticides Dieldrin	P028	0.03 µg/l	278	0	< 0.0025	< 0.0025	0
Pesticides Diflufenican	P157	0.1 µg/l	278	0	< 0.0026	0.002784	0
Pesticides Diuron	P032	0.1 µg/l	278	0	< 0.0033	0.005683	0
Pesticides Ethofumersate	P221	0.1 µg/l	279	0	< 0.001	< 0.013	0
Pesticides Fenpropimorph	P037	0.1 µg/l	278	0	< 0.0027	< 0.0027	0
Pesticides Fluroxypyr	P040	0.1 µg/l	278	0	< 0.0052	0.01921	0
Pesticides Glyphosate	P042	0.1 µg/l	279	0	< 0.0034	< 0.017	0
Pesticides Heptachlor	P043	0.03 µg/l	278	0	< 0.0048	< 0.0048	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	278	0	0	0	0
Pesticides Isoproturon	P048	0.1 µg/l	278	0	< 0.0017	< 0.0017	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	278	0	< 0.00055	0.039	0
Pesticides MCPB	P055	0.1 µg/l	278	0	< 0.0041	< 0.0041	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	278	0	< 0.0013	0.004499	0
Pesticides Metaldehyde	P226	0.1 µg/l	278	0	< 0.0061	0.04568	0
Pesticides Metamitron	P194	0.1 µg/l	278	0	< 0.0032	< 0.0032	0
Pesticides Metazachlor	P203	0.1 µg/l	278	0	< 0.003	0.011312	0
Pesticides Pendimethalin	P118	0.1 µg/l	275	0	< 0.0025	0.00612	0
Pesticides Picloram (Total)	P122	0.1 µg/l	278	0	< 0.0035	0.007057	0

Table NNE 6: Quality of water leaving bulk supply points - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Pesticides Propyzamide	P071	0.1 µg/l	278	0	< 0.0022	0.012441	0
Pesticides Quinmerac	P244	0.1 µg/l	278	0	< 0.0016	0.03242	0
Pesticides Triclopyr	P131	0.1 µg/l	278	0	< 0.0035	< 0.003521	0
Radon	F031	100 Bq/l	12	0	8.7	18	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	278	0	0	0.15	0
Totals:			10,853	0			

Table NNE 7: Quality of water leaving bulk supply points - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Tetrachloromethane (Total)	D008	3 µg/l	278	0	< 0.02	< 0.025	0
Totals:			278	0			

Table NNE 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Gross Alpha	F004	0.1 Bq/l	58	0	< 0.007	0.086
Gross Beta	F005	1 Bq/l	58	0	0.021	0.141
Total Organic Carbon	A017	No abnormal change	279	-n/a	< 0.212	3.32
Tritium	F006	100 Bq/l	23	0	< 10	< 10
Totals:			418	0		

Table NNE 9: Quality of water at consumer's tap (zones) - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Antimony	B008A	5 µg Sb/l	454	0	< 0.08	< 0.33	0
Arsenic (Total)	B001A	10 µg As/l	454	0	< 0.023	0.3545	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	453	2	< 0.00056	0.0008784	2
Boron	D005A	1 mg B/l	454	0	< 0.0034	0.0956	0
Bromate	F003	10 µg BrO3/l	450	0	< 0.3	0.4796	0
Cadmium (Total)	B002	5 µg Cd/l	454	0	< 0.009	0.0565	0
Chromium (Total)	B004	50 µg Cr/l	454	0	< 0.044	0.2545	0
Copper (Total)	A024A	2 mg Cu/l	454	0	0.000755	0.269	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	6,383	0	0	0	0
Enterococci (Confirmed)	C003	0 number/100 ml	454	0	0	0	0
Fluoride (Fluoridated)	A027A	1.2 mg F/l	175	87	< 0.024	1.1	21
Fluoride (Total)	A027	1.5 mg F/l	454	0	< 0.024	1.1	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	454	5	< 0.033	12.45	5
Nickel (Total)	B006A	20 µg Ni/l	454	1	0.09415	11	1
Nitrate (Total)	A012	50 mg NO3/l	454	0	0.641	28	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	454	0	< 0.0011	0.00648	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	454	0	< 0.01147	< 0.5545	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	453	1	0	0.003859	1
Selenium (Total)	B009	10 µg Se/l	454	0	< 0.16	1.535	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	454	0	1.673	74.71	0
Totals:			14,724	96			

Table NNE 10: Quality of water at consumer's tap (zones) - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Aluminium (Total)	A021	200 µg Al/l	2,227	6	7.828	100	6
Colour	A001	20 mg/l Pt/Co scale	2,228	0	< 0.41	2.2	0
Iron (Total)	A022	200 µg Fe/l	2,227	5	< 1.2	110	5
Manganese (Total)	A023	50 µg Mn/l	2,195	1	< 0.18	7.404	1
Odour	A003	0 Dilution number	1,139	1	0	0	1
Sodium (Total)	A009	200 mg Na/l	454	0	3.3	72.75	0
Taste (Taste Quant)	A004	0 Dilution number	1,139	0	0	0	0
Turbidity	A002	4 nephelometric turbidity units	2,227	0	< 0.08	0.54	0
Totals:			13,836	13			

Table NNE 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Total)	A014	0.5 mg NH ₄ /l	2,228	0	< 0.007	0.022
Chloride	D002A	250 mg Cl/l	454	1	5.855	77.35
Clostridium Perfringens	C004A	0 number/100 ml	2,195	1	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,383	9	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	2,228	-n/a	0	70
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	186	-n/a	0	101
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	2,228	0	140	910
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	2,228	1	7.2	8.6
Residual Disinfectant - Free	C009	No abnormal change	6,381	-n/a	0.03	0.94
Residual Disinfectant - Total	C010	No abnormal change	6,381	-n/a	0.09	1.09
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(6,381)</i>	<i>-n/a</i>	<i>0</i>	<i>0.4</i>
Sulphate	A007	250 mg SO ₄ /l	454	0	4.71	154.5
Totals:			31,346	12		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.