

## **Data Summary Tables for Northumbrian Water (NNE)**

These tables represent a summary of test results from water samples taken by the water company in 2005 and submitted to the Drinking Water Inspectorate.

These tables are published annually by the Inspectorate as part of the Chief Inspector's Report. They are available on the Inspectorate's website at [www.dwi.gov.uk](http://www.dwi.gov.uk)

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed "Maximum" and "Minimum" contain figures for the 1 percentile and 99 percentile sample results 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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**Table NWL 1: Quality of water leaving service treatment works - European Standards**

**Number of treatment works = 32**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO <sub>2</sub> /l	324	0	<0.002	0.011	0
<b>TOTAL</b>	-	<b>324</b>	<b>0</b>	-	-	-

**Table NWL 2: Quality of water leaving service treatment works - National Standards**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	0 number/100 ml	5886	5	0	0	5
Cryptosporidium	Oocyst concentration / 10 l	1577	0	<0.01	<0.032	0
<i>E. coli</i>	0 number/100 ml	5886	1	0	0	1
<b>TOTAL</b>	-	<b>13349</b>	<b>6</b>	-	-	-

**Table NWL 3: Quality of water leaving service treatment works - Additional Monitoring Requirements**

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	5886	0	0	6
Colony Counts After 48 Hours At 37°C	No abnormal change	5886	1	0	3
Residual Disinfectant - Free	No abnormal change	5886	0	0.219	1.1
Residual Disinfectant - Total	No abnormal change	5886	0	0.33	1.2
Turbidity	1 NTU	5849	14	<0.04	0.69
<b>TOTAL</b>	-	<b>29393</b>	<b>15</b>	-	-

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

Number of service reservoirs = 232

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	11832	8	0	0	0*
<i>E. coli</i>	0 number/100 ml	11832	2	0	0	2
<b>TOTAL</b>	-	<b>23664</b>	<b>10</b>	-	-	-

\* R0001672 FERRYHILL SR OUTLET, R0700161 BEACON LOUGH SR OUTLET 2, R0700175 BROOMLEY TANK OUTLET, R0700193 ELFORD SR OUTLET, R0700225 KATESHAW HILL SR OUTLET 1, R0700241 MILL HILL SR OUTLET 2, R0700308 WHICKHAM SR OUTLET 2 breach(es) regulation 14 for an unjustified sampling shortfall

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R0016129 WHICKHAM SR OUTLET COMBINED

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	11832	0	260
Colony Counts After 48 Hours At 37°C	No abnormal change	11831	0	18
Residual Disinfectant - Free	No abnormal change	11832	0.02	0.94
Residual Disinfectant - Total	No abnormal change	11832	0.06	1.08
<b>TOTAL</b>	-	<b>47327</b>	-	-

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

Number of supply points = 32

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	280	0	<0.085	<0.085	0
Benzene	1 µg/l	280	0	<0.042	<0.042	0
Cyanide	50 µg CN/l	280	0	<0.66	6.471	0
Mercury	1 µg Hg/l	280	0	<0.037	0.04	0
Tetrachloroethene/Trichloroethene	10 µg/l	280	0	0	0.234	0
<b>TOTAL</b>	-	<b>1400</b>	<b>0</b>	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	3 µg/l	280	0	<0.11	<0.11	0
<b>TOTAL</b>	-	<b>280</b>	<b>0</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Radioactivity - Gross Alpha	0.1 Bq/l	280	0	<0.02	0.073
Radioactivity - Gross Beta	1 Bq/l	280	0	<0.025	0.332
Radioactivity - Tritium	100 Bq/l	280	0	<4	6.438
Total Organic Carbon (TOC)	No abnormal change	280	0	<0.35	4.838
<b>TOTAL</b>	-	<b>1120</b>	<b>0</b>	-	-

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

Number of zones = 79

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Antimony	5 µg Sb/l	550	0	<0.28	0.355	0
Arsenic	10 µg As/l	550	0	<0.17	0.515	0
Benzo (a) Pyrene	0.01 µg/l	550	0	<0.0006	0.0009	0
Boron	1 mg B/l	550	0	<0.026	0.11	0
Bromate	10 µg BrO <sub>3</sub> /l	550	0	<1.1	1.349	0
Cadmium	5 µg Cd/l	550	0	<0.017	0.073	0
Chromium	50 µg Cr/l	550	0	<0.28	1.1	0
Copper	2 mg Cu/l	550	0	<0.001	0.135	0
<i>E. coli</i>	0 number/100 ml	6382	6	0	0	6
Enterococci	0 number/100 ml	553	0	0	0	0
Fluoride	1.5 mg F/l	549	0	<0.022	1.15	0
Lead	25 µg Pb/l	550	2	<0.17	12.49	2
Nickel	20 µg Ni/l	550	1	<0.16	10.49	1
Nitrate	50 mg NO <sub>3</sub> /l	550	0	<0.69	22	0
Nitrite	0.5 mg NO <sub>2</sub> /l	550	0	<0.0024	0.005	0
Nitrate/Nitrite Formula	≤ 1	550	0	<0.015	<0.45	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	550	0	0	0.002	0
Selenium	10 µg Se/l	550	0	<0.31	1.5	0
Trihalomethanes (THMs)	100 µg/l	549	0	1.835	78.55	0
Pesticides (2,4,5-T)	0.1 µg/l	550	0	<0.004	<0.01	0
Pesticides (2,4,-Db)	0.1 µg/l	550	0	<0.003	<0.017	0
Pesticides (2,4-D)	0.1 µg/l	550	0	<0.005	0.026	0
Pesticides (Aldrin)	0.03 µg/l	562	0	<0.002	<0.004	0
Pesticides (Atrazine)	0.1 µg/l	550	0	<0.001	0.003	0
Pesticides (Bromoxynil)	0.1 µg/l	550	0	<0.002	<0.018	0
Pesticides (Carbendazim)	0.1 µg/l	550	0	<0.003	0.025	0
Pesticides (Carbofuran)	0.1 µg/l	550	0	<0.005	0.008	0
Pesticides (Chlortoluron)	0.1 µg/l	553	0	<0.005	<0.006	0
Pesticides (Cypermethrin)	0.1 µg/l	549	0	<0.004	0.017	0
Pesticides (Diazinon)	0.1 µg/l	568	0	<0.002	<0.002	0
Pesticides (Dicamba)	0.1 µg/l	550	0	<0.003	<0.008	0
Pesticides (Dichlorprop)	0.1 µg/l	550	0	<0.003	<0.016	0
Pesticides (Dichlorvos)	0.1 µg/l	568	0	<0.002	<0.002	0
Pesticides (Dieldrin)	0.03 µg/l	562	0	<0.001	<0.006	0
Pesticides (Dimethoate)	0.1 µg/l	568	0	<0.006	<0.006	0

Pesticides (Diuron)	0.1 µg/l	553	0	<0.005	0.008	0
Pesticides (Fenitrothion)	0.1 µg/l	568	0	<0.004	<0.004	0
Pesticides (Fenpropidin)	0.1 µg/l	551	0	<0.003	<0.003	0
Pesticides (Fenpropimorph)	0.1 µg/l	550	0	<0.003	<0.003	0
Pesticides (Fonofos)	0.1 µg/l	550	0	<0.003	<0.003	0
Pesticides (Heptachlor)	0.03 µg/l	550	0	<0.001	<0.005	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	562	0	0	0	0
Pesticides (Ioxynil)	0.1 µg/l	550	0	<0.003	<0.01	0
Pesticides (Isoproturon)	0.1 µg/l	553	0	<0.008	0.045	0
Pesticides (Linuron)	0.1 µg/l	553	0	<0.003	0.007	0
Pesticides (Malathion)	0.1 µg/l	568	0	<0.005	0.013	0
Pesticides (MCPA)	0.1 µg/l	550	0	<0.004	0.032	0
Pesticides (MCPB)	0.1 µg/l	550	0	<0.004	<0.011	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	550	0	<0.006	0.058	0
Pesticides (Metalaxyl)	0.1 µg/l	568	0	<0.002	<0.002	0
Pesticides (Pendimethalin)	0.1 µg/l	569	0	<0.001	0.006	0
Pesticides (Propazine)	0.1 µg/l	550	0	<0.001	<0.001	0
Pesticides (Propetamphos)	0.1 µg/l	568	0	<0.002	<0.002	0
Pesticides (Propyzamide)	0.1 µg/l	550	0	<0.004	<0.029	0
Pesticides (Simazine)	0.1 µg/l	550	0	<0.002	0.002	0
Pesticides (Triazophos)	0.1 µg/l	568	0	<0.003	<0.003	0
Pesticides (Trichlopyr)	0.1 µg/l	550	0	<0.005	<0.008	0
Pesticides (Trietazine)	0.1 µg/l	550	0	<0.001	0.002	0
Pesticides (Trifluralin)	0.1 µg/l	562	0	<0.002	0.032	0
Pesticides - Total Substances	0.5 µg/l	575	0	0	0.094	0
<b>TOTAL</b>	-	<b>39081</b>	<b>9</b>	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/l	2265	5	<2.2	79.34	5
Colour	20 mg/l Pt/Co scale	2266	0	<0.95	3.1	0
Hydrogen ion (pH)	6.5 - 10 pH value	2265	0	7.1	8.9	0
Iron	200 µg Fe/l	2265	18	<4	183.4	11
Manganese	50 µg Mn/l	2249	8	<0.27	20	8
Organoleptic Odour	Dilution No. 3 at 25°C	1460	1	0	0	1
Organoleptic Taste	Dilution No. 3 at 25°C	1459	4	0	0	3
Sodium	200 mg Na/l	550	0	2.8	52.49	0
Turbidity	4 NTU	2266	3	<0.04	1.133	3
<b>TOTAL</b>	-	<b>17045</b>	<b>39</b>	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	0.5 mg NH <sub>4</sub> /l	2265	0	<0.026	0.066
Chloride	250 mg Cl/l	550	0	5.451	54.49
<i>Clostridium perfringens</i>	0 number/100 ml	2256	3	0	0
Coliform Bacteria	0 number/100 ml	6382	48	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	2268	11	0	154
Colony Counts After 48 Hours At 37°C	No abnormal change	2268	27	0	78
Conductivity	2500 µS/cm	2266	0	130	900
Hydrogen ion (pH)	9.5 pH Value	2265	0	7.1	8.9
Residual Disinfectant - Free	No abnormal change	6381	0	0.02	0.83
Residual Disinfectant - Total	No abnormal change	6381	0	0.04	0.94
Sulphate	250 mg SO <sub>4</sub> /l	550	1	5.751	200
<b>TOTAL</b>	-	<b>33832</b>	<b>90</b>	-	-