

Data Summary Tables for Northumbrian Water (NNE)

These tables contain a summary of results of monitoring undertaken by the water company in 2012 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 2012*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.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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Drinking Water Inspectorate
Area 7e
9 Millbank
c/o Nobel House
17 Smith Square
London
SW1P 3JR

Enquiries : 0300 068 6400

Site Summary Data for Northumbrian Water Ltd

Report Date Range: For the whole year 2012

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 (Works)	A013B	0.1 mg NO ₂ /l	379	0	< 0.0011	0.0124	0
Totals:			379	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
Coliform Bacteria	C001	0 number/100 ml	5,965	8	0	0	8
<i>Cryptosporidium</i>	C111	-(n/a)	1,462	-n/a			
<i>E.coli</i>	C002	0 number/100 ml	5,965	1	0	0	1
Totals:			13,392	9			

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 (Indicator)	C007	No abnormal change	5,965	-n/a	0	2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	5,963	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	5,965	-n/a	0.21	1.22
Residual Disinfectant - Total	C010	No abnormal change	5,965	-n/a	0.39	1.34
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(5,965)	-(n/a)	0.01	0.68
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	5,965	8	< 0.08	0.33
Totals:			29,823	8		

*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
Coliform Bacteria	C001	0 number/100 ml	10,687	15	0	0	0
<i>E.coli</i>	C002	0 number/100 ml	10,687	3	0	0	3
Totals:			21,374	18			

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 (Indicator)	C007	No abnormal change	10,687	-n/a	0	85
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	10,675	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	10,687	-n/a	0.02	0.9912
Residual Disinfectant - Total	C010	No abnormal change	10,687	-n/a	0.07	1.09
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(10,687)	-(n/a)	0.01	0.65
Totals:			42,736	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	F001	3 µg/l	282	0	< 0.036	< 0.06	0
Benzene	F002	1 µg/l	282	0	< 0.013	< 0.13	0
Cyanide	B003	50 µg CN/l	282	0	< 0.3	4.434	0
Mercury	B005	1 µg Hg/l	282	0	< 0.013	0.05202	0
Pesticides - Total Substances	B010	0.5 µg/l	282	3	0	0.6287	2
Pesticides 2,4-D	P020	0.1 µg/l	282	0	< 0.0082	< 0.016	0
Pesticides Asulam	P133	0.1 µg/l	278	0	< 0.004	< 0.0095	0
Pesticides Benazolin	P138	0.1 µg/l	282	0	< 0.0076	0.009585	0
Pesticides Bentazone	P006	0.1 µg/l	282	0	< 0.0035	< 0.0074	0
Pesticides Chlormequat	P163	0.1 µg/l	282	0	< 0.0029	0.006617	0
Pesticides Chlorothalonil	P015	0.1 µg/l	280	0	< 0.006	< 0.006	0
Pesticides Chlortoluron	P014	0.1 µg/l	280	0	< 0.0019	< 0.0041	0
Pesticides Clopyralid	P018	0.1 µg/l	282	0	< 0.0066	0.03017	0
Pesticides Cypermethrin	P094	0.1 µg/l	282	0	< 0.0081	< 0.0085	0
Pesticides Diazinon	P024	0.1 µg/l	282	0	< 0.0042	< 0.0051	0
Pesticides Dieldrin	P028	0.03 µg/l	280	0	< 0.0022	< 0.0022	0
Pesticides Diuron	P032	0.1 µg/l	280	0	< 0.0033	< 0.007	0
Pesticides Fenpropimorph	P037	0.1 µg/l	282	0	< 0.0044	0.008692	0
Pesticides Fluroxypyr	P040	0.1 µg/l	282	1	< 0.013	0.02234	1
Pesticides Glyphosate	P042	0.1 µg/l	281	0	< 0.0034	< 0.0099	0
Pesticides Heptachlor	P043	0.03 µg/l	280	0	< 0.0016	< 0.0016	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	280	0	0	0	0
Pesticides Isoproturon	P048	0.1 µg/l	280	0	< 0.0017	< 0.0048	0
Pesticides MCPA	P054	0.1 µg/l	282	3	< 0.0084	0.1168	3
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	282	0	< 0.0038	< 0.018	0
Pesticides Metaldehyde	P226	0.1 µg/l	282	13	< 0.0056	0.6102	5
Pesticides Metazachlor	P203	0.1 µg/l	282	0	< 0.0084	0.03417	0
Pesticides Propyzamide	P071	0.1 µg/l	282	1	< 0.0084	< 0.0096	1
Pesticides Trichlopyr	P131	0.1 µg/l	282	0	< 0.0079	< 0.01134	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	282	0	0	0.38	0
Totals:			8,441	21			

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	D008	3 µg/l	282	0	< 0.025	< 0.074	0
Totals:			282	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)
Total organic carbon (indicator)	A017	No abnormal change	282	-n/a	0.37	3.889
Totals:			282	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	538	0	0.04517	0.3	0
Arsenic	B001A	10 µg As/l	538	0	0.11	0.5683	0
Benzo (a) Pyrene	D007	0.01 µg/l	535	0	< 0.00053	0.0011	0
Boron	D005A	1 mg B/l	538	0	0.02378	0.11	0
Bromate	F003	10 µg BrO3/l	534	0	< 0.3	< 0.97	0
Cadmium	B002	5 µg Cd/l	538	0	< 0.0024	0.10532	0
Chromium	B004	50 µg Cr/l	538	0	0.03573	1.861	0
Copper	A024A	2 mg Cu/l	538	0	< 0.00064	0.3044	0
<i>E. coli</i>	C002	0 number/100 ml	6,537	0	0	0	0
Enterococci	C003	0 number/100 ml	538	0	0	0	0
Fluoride	A027	1.5 mg F/l	538	0	< 0.027	1.2	0
Lead	B007A	25 µg Pb/l	538	0	< 0.014	8.661	0
Nickel	B006A	20 µg Ni/l	538	3	< 0.034	12.61	3
Nitrate	A012	50 mg NO3/l	538	0	0.4751	25	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	538	0	< 0.009902	< 0.5022	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	538	0	< 0.0011	0.004749	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	535	0	0	0.00417	0
Selenium	B009	10 µg Se/l	538	0	< 0.078	1.261	0
Total Trihalomethanes	D011	100 µg/l	538	0	5.956	69.971	0
Totals:			16,211	3			

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	A021	200 µg Al/l	2,383	3	< 6.6	73.32	2
Colour	A001	20 mg/l Pt/Co scale	2,384	0	< 1	2.3	0
Iron	A022	200 µg Fe/l	2,383	17	< 1.2	171.6	13
Manganese	A023	50 µg Mn/l	2,367	8	< 0.06	19	7
Organoleptic Odour	A003	0 Dilution number	1,304	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	1,304	0	0	0	0
Sodium	A009	200 mg Na/l	538	0	2.639	56	0
Turbidity	A002	4 nephelometric turbidity units	2,384	0	< 0.08	0.5415	0
Totals:			15,047	28			

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 (Indicator)	A014	0.5 mg NH ₄ /l	2,384	0	< 0.007	0.02915
Chloride (Indicator)	D002A	250 mg Cl/l	538	0	4.239	61
<i>Clostridium perfringens</i> (indicator)	C004A	0 number/100 ml	2,367	2	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,537	18	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	2,384	-n/a	0	33
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	2,386	-n/a	0	34
Conductivity (Indicator)	D001	2500 µS/cm	2,383	0	120	860
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	2,384	0	6.8	8.4
Residual Disinfectant - Free	C009	No abnormal change	6,537	-n/a	0.02	0.86
Residual Disinfectant - Total	C010	No abnormal change	6,537	-n/a	0.07	0.9662
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(6,537)	-(n/a)	0.01	0.22
Sulphate (Indicator)	A007	250 mg SO ₄ /l	538	0	4.8	176.1
Totals:			34,975	20		

*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'.