

Data summary tables for Independent Water Networks Limited (IWN)

These tables contain a summary of results of monitoring undertaken by the water company in 2013 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 2013*.

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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Site Summary Data for Independent Water Networks Report

Date Range: For the whole year 2013

Table IWN 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
1,2 Dichloroethane	F001	3 µg/l	20	0	< 0.07	< 0.1	0
Antimony	B008A	5 µg Sb/l	21	0	0.075	0.43	0
Arsenic	B001A	10 µg As/l	21	0	< 0.18	1.51	0
Benzene	F002	1 µg/l	21	0	< 0.02	< 0.07	0
Benzo (a) Pyrene	D007	0.01 µg/l	21	0	< 0.0003	< 0.0032	0
Boron	D005A	1 mg B/l	21	0	0.029	0.115	0
Bromate	F003	10 µg BrO3/l	21	0	< 0.1	2.4	0
Cadmium	B002	5 µg Cd/l	21	0	< 0.006	0.025	0
Chromium	B004	50 µg Cr/l	21	0	0.07	1.41	0
Copper	A024A	2 mg Cu/l	21	0	0.003	0.191	0
Cyanide	B003	50 µg CN/l	21	0	< 0.5	< 4	0
E Coli	C002	0 number/100 ml	65	0	0	0	0
Enterococci	C003	0 number/100 ml	22	0	0	0	0
Fluoride	A027	1.5 mg F/l	20	0	0.11	0.25	0
Lead	B007A	25 µg Pb/l	21	0	0.07	2.51	0
Mercury	B005	1 µg Hg/l	21	0	< 0.06	< 0.06	0
Nickel	B006A	20 µg Ni/l	21	0	1.01	4.2	0
Nitrate	A012	50 mg NO3/l	20	0	9.45	40.1	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	15	0	< 0.37	0.8	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	20	0	< 0.001	0.248	0
Pesticides - Total Substances	B010	0.5 µg/l	25	0	< 0.002	0.356	0
Pesticides 2,3,6-Tba	P074	0.1 µg/l	1	0	< 0.006	< 0.006	0
Pesticides 2,4,5-T	P076	0.1 µg/l	14	0	< 0.002	< 0.006	0
Pesticides 2,4,-Db	P082	0.1 µg/l	12	0	< 0.005	< 0.007	0
Pesticides 2,4-D	P020	0.1 µg/l	23	0	< 0.003	< 0.006	0
Pesticides Aldrin	P002	0.03 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Alpha-HCH	P003	0.1 µg/l	1	0	< 0.001	< 0.001	0

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
Pesticides Ametryn	P222	0.1 µg/l	13	0	< 0.001	< 0.002	0
Pesticides Atrazine	P004	0.1 µg/l	23	0	< 0.001	< 0.02	0
Pesticides Azinphos methyl	P005	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Bentazone	P006	0.1 µg/l	22	0	< 0.002	0.003	0
Pesticides Beta-HCH	P007	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Bromacil	P086	0.1 µg/l	8	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	13	0	< 0.003	< 0.004	0
Pesticides Carbendazim	P150	0.1 µg/l	12	0	< 0.001	< 0.001	0
Pesticides Carbetamide	P010	0.1 µg/l	21	0	< 0.002	0.037	0
Pesticides Carbophenothion	P011	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Chlorfenvinphos	P013	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Chloridazon	P162	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Chlormequat	P163	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Chlorothalonil	P015	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Chlorpyriphos Methyl	P019	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Chlortoluron	P014	0.1 µg/l	22	0	< 0.002	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	23	0	< 0.008	0.052	0
Pesticides Cyanazine	P092	0.1 µg/l	8	0	< 0.002	< 0.002	0
Pesticides Delta-HCH	P022	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Demeton-S-Methyl	P023	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Diazinon	P024	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Dicamba	P025	0.1 µg/l	15	0	< 0.002	< 0.015	0
Pesticides Dichlorprop	P026	0.1 µg/l	22	0	< 0.004	< 0.006	0
Pesticides Dichlorvos	P027	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Dieldrin	P028	0.03 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Dimethoate	P029	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	21	0	< 0.003	< 0.003	0
Pesticides Endrin	P034	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides EPTC	P035	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Ethofumersate	P221	0.1 µg/l	1	0	< 0.007	< 0.007	0
Pesticides Fenitrothion	P036	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Fenoprop	P105	0.1 µg/l	10	0	< 0.002	< 0.005	0
Pesticides Fenpropimorph	P037	0.1 µg/l	1	0	< 0.002	< 0.002	0

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
Pesticides Fluroxypyr	P040	0.1 µg/l	13	0	< 0.006	0.01	0
Pesticides Flutriafol	P039	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Glyphosate	P042	0.1 µg/l	4	0	< 0.002	< 0.003	0
Pesticides Heptachlor	P043	0.03 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Heptenophos	P176	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Hexachlorobenzene	P045	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Ioxynil	P049	0.1 µg/l	13	0	< 0.002	< 0.004	0
Pesticides Isodrin	P047	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	21	0	< 0.002	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	16	0	< 0.003	< 0.007	0
Pesticides MCPA	P054	0.1 µg/l	18	0	< 0.002	< 0.005	0
Pesticides MCPB	P055	0.1 µg/l	13	0	< 0.004	< 0.007	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	19	0	< 0.002	< 0.004	0
Pesticides Metaldehyde	P226	0.1 µg/l	21	8	< 0.002	0.241	2
Pesticides Metamitron	P194	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Metazachlor	P203	0.1 µg/l	13	0	< 0.002	0.018	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Monuron	P113	0.1 µg/l	20	0	< 0.002	< 0.002	0
Pesticides PCB Congener 101	P195	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 118	P196	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 138	P197	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides PCB Congener 153	P198	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 180	P199	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides PCB Congener 28	P201	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides PCB Congener 52	P202	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	12	0	< 0.002	< 0.005	0
Pesticides Picloram	P122	0.1 µg/l	11	0	< 0.01	< 0.02	0
Pesticides Prometryn	P070	0.1 µg/l	12	0	< 0.001	< 0.002	0
Pesticides Propazine	P066	0.1 µg/l	12	0	< 0.002	< 0.002	0
Pesticides Propyzamide	P071	0.1 µg/l	20	0	< 0.002	0.028	0
Pesticides Quinmerac	P244	0.1 µg/l	9	0	0.006	0.025	0
Pesticides Simazine	P073	0.1 µg/l	22	0	< 0.001	0.006	0
Pesticides Terbutryn	P077	0.1 µg/l	20	0	< 0.001	< 0.002	0

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
Pesticides Trichlopyr	P131	0.1 µg/l	14	0	< 0.005	< 0.007	0
Pesticides Trietazine	P132	0.1 µg/l	4	0	< 0.002	< 0.003	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	18	0	0	< 0.01	0
Selenium	B009	10 µg Se/l	21	0	< 0.41	1.247	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	21	0	0	< 0.39	0
Total Trihalomethanes	D011	100 µg/l	11	0	9.33	23.02	0
Totals:			1,178	8			

Table IWN 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	20	0	< 0.9	10.6	0
Colour	A001	20 mg/l Pt/Co scale	20	0	< 0.07	2.4	0
Iron	A022	200 µg Fe/l	20	0	< 3.6	34.8	0
Manganese	A023	50 µg Mn/l	20	0	< 2.6	< 2.6	0
Organoleptic Odour	A003	0 Dilution number	20	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	20	0	0	0	0
Sodium	A009	200 mg Na/l	21	0	11.5	49.9	0
Tetrachloromethane	D008	3 µg/l	21	0	< 0.02	< 0.14	0
Turbidity	A002	4 nephelometric turbidity units	22	0	< 0.05	0.2	0
Totals:			184	0			

Table IWN 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	11	0	< 0.015	0.2
Chloride (Indicator)	D002A	250 mg Cl/l	21	0	22.4	80.8
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	14	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	64	0	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	23	-n/a	0	320
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	23	-n/a	0	121
Conductivity (Indicator)	D001	2500 µS/cm	20	0	546	783
Gross Alpha Activity	F004	0.1 Bq/l	11	0	0.034	0.037
Gross Beta Activity	F005	1 Bq/l	10	0	0.036	0.157
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	20	0	7.05	7.92
Residual Disinfectant - Free	C009	No abnormal change	3	-n/a	0.12	0.2
Residual Disinfectant - Total	C010	No abnormal change	64	-n/a	0.06	0.77
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(2)	-(n/a)	0.06	0.09
Sulphate (Indicator)	A007	250 mg SO ₄ /l	14	0	16.7	124
Total organic carbon (indicator)	A017	No abnormal change	21	-n/a	0.45	3.94
Tritium (Indicator)	F006	100 Bq/l	11	0	< 5	< 5
Totals:			330	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'.