Data summary tables for Anglian Water (ANH)

These tables contain a summary of results of monitoring undertaken by the water company in 2019 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 2019*.

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 Anglian Water Services Ltd

Report Date Range: For the whole year 2019

Table ANH 1: Quality of water leaving service 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 NO2/l	3,540	0	< 0.009	< 0.009	0
		Totals:	**3,540**	**0**			

Table ANH 2: Quality of water leaving service 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	20,882	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	20,882	4	0	0	4
		Totals:	**41,764**	**4**			

Table ANH 3: Quality of water leaving service 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 22øc (Colony Counts)	C007	No abnormal change	20,882	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	20,912	-n/a	< 0.05	1.28
Residual Disinfectant - Total	C010	No abnormal change	20,912	-n/a	0.37	1.55
Turbidity - Indicator	A002A	1 NTU	20,878	2	< 0.013	0.17
		Totals:	**83,584**	**2**		

Table ANH 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	16,931	2	0	0	2
Total Coliforms (Confirmed)	C001	0 number/100 ml	16,931	6	0	0	0
		Totals:	**33,862**	**8**			

Table ANH 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 22øc (Colony Counts)	C007	No abnormal change	16,931	-n/a	0	35
Residual Disinfectant - Free	C009	No abnormal change	16,932	-n/a	< 0.05	0.73
Residual Disinfectant - Total	C010	No abnormal change	16,932	-n/a	0.12	0.99
		Totals:	**50,795**	**0**		

Table ANH 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	1,116	0	< 0.13	< 0.164	0
Benzene (Total)	F002	1 µg/l	1,110	0	< 0.055	< 0.078	0
Boron	D005A	1 mg B/l	1,104	0	< 0.068	0.22345	0
Bromate	F003	10 µg BrO3/l	1,105	0	< 0.35	4.7068	0
Cyanide (Total)	B003	50 µg CN/l	1,104	0	< 1	1.269	0
Mercury (Total)	B005	1 µg Hg/l	1,105	0	< 0.029	< 0.029	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	914	0	0	0.1137	0
Pesticides 2 4-D	P020	0.1 µg/l	92	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	41	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	291	0	< 0.003	0.01716	0
Pesticides Azoxystrobin	P227	0.1 µg/l	16	0	< 0.002	< 0.002	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	17	0	< 0.005	< 0.005	0
Pesticides Bentazone	P006	0.1 µg/l	601	0	< 0.004	0.00696	0
Pesticides Boscalid	P231	0.1 µg/l	17	0	< 0.001	< 0.004	0
Pesticides Bromacil	P086	0.1 µg/l	68	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	9	0	< 0.005	0.009	0
Pesticides Carbetamide	P010	0.1 µg/l	234	0	< 0.002	0.00965	0
Pesticides Chloridazon	P162	0.1 µg/l	75	0	< 0.004	< 0.006	0
Pesticides Chlortoluron	P014	0.1 µg/l	61	0	< 0.005	0.011	0
Pesticides Clopyralid	P018	0.1 µg/l	386	0	< 0.004	0.037	0
Pesticides Cyanazine	P092	0.1 µg/l	8	0	< 0.002	< 0.004	0
Pesticides Cyproconazole	P207	0.1 µg/l	15	0	< 0.003	< 0.003	0
Pesticides Dicamba	P025	0.1 µg/l	9	0	< 0.012	< 0.017	0
Pesticides Dichlorprop	P026	0.1 µg/l	9	0	< 0.002	0.004	0
Pesticides Dieldrin	P028	0.03 µg/l	45	0	< 0.001	< 0.001	0
Pesticides Diuron	P032	0.1 µg/l	105	0	< 0.004	< 0.00682	0
Pesticides Ethofumersate	P221	0.1 µg/l	49	0	< 0.004	< 0.011	0
Pesticides Flufenacet	P230	0.1 µg/l	147	0	< 0.003	0.01264	0
Pesticides Fluroxypyr	P040	0.1 µg/l	214	0	< 0.003	0.011	0
Pesticides Glyphosate	P042	0.1 µg/l	174	0	< 0.002	0.018	0
Pesticides Heptachlor	P043	0.03 µg/l	42	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	42	0	< 0.001	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	115	0	< 0.003	< 0.003	0
Pesticides Lenacil	P109	0.1 µg/l	60	0	< 0.002	< 0.006	0
Pesticides Linuron	P051	0.1 µg/l	39	0	< 0.007	< 0.007	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 supply points with failures
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	124	0	< 0.004	< 0.004	0
Pesticides MCPB	P055	0.1 µg/l	9	0	< 0.003	< 0.003	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	272	0	< 0.003	0.02154	0
Pesticides Metaldehyde	P226	0.1 µg/l	504	0	< 0.004	0.063	0
Pesticides Metamitron	P194	0.1 µg/l	33	0	< 0.005	< 0.005	0
Pesticides Metazachlor	P203	0.1 µg/l	122	0	< 0.001	0.004	0
Pesticides Metribuzin	P152	0.1 µg/l	9	0	< 0.002	< 0.003	0
Pesticides Monuron	P113	0.1 µg/l	21	0	< 0.006	< 0.006	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	10	0	< 0.002	< 0.007	0
Pesticides Picloram (Total)	P122	0.1 µg/l	9	0	< 0.003	< 0.008	0
Pesticides Propamocarb	P238	0.1 µg/l	9	0	< 0.001	< 0.001	0
Pesticides Propyzamide	P071	0.1 µg/l	262	0	< 0.002	0.03759	0
Pesticides Prosulfocarb	P243	0.1 µg/l	144	0	< 0.003	< 0.00455	0
Pesticides Quinmerac	P244	0.1 µg/l	248	0	< 0.001	0.01851	0
Pesticides Simazine	P073	0.1 µg/l	260	0	< 0.005	0.01539	0
Pesticides Terbutryn	P077	0.1 µg/l	24	0	< 0.003	< 0.005	0
Pesticides Trietazine	P132	0.1 µg/l	40	0	< 0.008	0.012	0
Radon	F031	100 Bq/l	4	0	< 1	< 1	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	1,120	0	0	1.1737	0
		Totals:	**13,763**	**0**			

Table ANH 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	1,119	0	< 0.094	0.239	0
		Totals:	**1,119**	**0**			

Table ANH 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)
Chloride	D002A	250 mg Cl/l	1,107	0	14.208	132.92
Clostridum Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	1,106	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm at 20°C	4,852	0	338	983
Gross Alpha	F004	0.1 Bq/l	18	0	< 0.02	0.086
Gross Beta	F005	1 Bq/l	18	0	< 0.054	0.157
Sulphate	A007	250 mg SO4/l	1,104	0	< 9.317	170.95
Total Organic Carbon	A017	No abnormal change	1,104	-n/a	0.64	4.209
Tritium	F006	100 Bq/l	9	0	< 6	< 6
		Totals:	**9,318**	**0**		

Table ANH 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 (Total)	F001	3 µg/l	47	0	< 0.13	< 0.13	0
Antimony	B008A	5 µg Sb/l	1,269	0	< 0.13	0.533	0
Arsenic (Total)	B001A	10 µg As/l	1,269	0	< 0.112	3.036	0
Benzene (Total)	F002	1 µg/l	47	0	< 0.055	< 0.055	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	1,273	1	< 0.001	0.001	1
Boron	D005A	1 mg B/l	47	0	< 0.068	0.116	0
Bromate	F003	10 µg BrO3/l	138	0	< 0.35	5.4834	0
Cadmium (Total)	B002	5 µg Cd/l	1,269	0	< 0.007	0.072	0
Chromium (Total)	B004	50 µg Cr/l	1,267	0	< 0.673	0.9	0
Copper (Total)	A024A	2 mg Cu/l	1,269	0	< 0.002	0.6603	0
Cyanide (Total)	B003	50 µg CN/l	47	0	< 1	1.27	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	12,367	2	0	0	2
Enterococci (Confirmed)	C003	0 number/100 ml	1,268	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	1,269	0	0.09	1.2493	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	1,270	3	< 0.16	5.0022	3
Mercury (Total)	B005	1 µg Hg/l	47	0	< 0.029	< 0.029	0
Nickel (Total)	B006A	20 µg Ni/l	1,269	7	< 0.186	12.66	7
Nitrate (Total)	A012	50 mg NO3/l	2,698	0	< 3.763	41.7	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	2,716	0	< 0.009	0.24883	0
Nitrite/Nitrate formula	A013C	1 mg/l	2,702	0	0	0.834	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	50	0	0	0.061	0
Pesticides 2 4-D	P020	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides 2 4-DB	P082	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Aldrin	P002	0.03 µg/l	27	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	10	0	< 0.003	0.007	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Bentazone	P006	0.1 µg/l	5	0	< 0.004	< 0.004	0
Pesticides Bromacil	P086	0.1 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Carbetamide	P010	0.1 µg/l	5	0	< 0.003	< 0.007	0
Pesticides Chlorfenvinphos	P013	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Chloridazon	P162	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides Chlorothalonil	P015	0.1 µg/l	1	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Clopyralid	P018	0.1 µg/l	13	0	< 0.009	0.021	0
Pesticides Cyanazine	P092	0.1 µg/l	1	0	< 0.002	< 0.002	0
Pesticides Dichlorprop	P026	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 Dieldrin	P028	0.03 µg/l	26	0	< 0.001	< 0.001	0
Pesticides Fluroxypyr	P040	0.1 µg/l	1	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	1	0	0.003	0.003	0
Pesticides Heptachlor	P043	0.03 µg/l	28	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	24	0	< 0.001	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	22	0	< 0.007	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	1	0	< 0.004	< 0.004	0
Pesticides MCPB	P055	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	5	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	16	0	< 0.004	0.048	0
Pesticides Metamitron	P194	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Metazachlor	P203	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Monuron	P113	0.1 µg/l	22	0	< 0.006	< 0.006	0
Pesticides Pirimicarb	P064	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Prometryne	P070	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	1	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	5	0	< 0.002	0.012	0
Pesticides Quinmerac	P244	0.1 µg/l	1	0	< 0.001	< 0.001	0
Pesticides Simazine	P073	0.1 µg/l	5	0	< 0.005	< 0.005	0
Pesticides Terbutryn	P077	0.1 µg/l	1	0	< 0.003	< 0.003	0
Pesticides Triclopyr	P131	0.1 µg/l	1	0	< 0.006	< 0.006	0
Pesticides Trietazine	P132	0.1 µg/l	22	0	< 0.008	< 0.008	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	1,274	0	0	0.01125	0
Selenium (Total)	B009	10 µg Se/l	1,269	0	< 0.35	3.473	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	26	0	0	0.47	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	1,271	0	0	58.656	0
		Totals:	**37,702**	**107**			

Table ANH 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	4,148	0	< 14	21.9	0
Colour	A001	20 mg/l Pt/Co	4,728	0	< 0.34	1.9	0
Iron (Total)	A022	200 µg Fe/l	4,148	7	< 7	97.51	7
Manganese (Total)	A023	50 µg Mn/l	4,148	2	< 1	4.102	2
Odour	A003	0 Dilution number at 25°C	4,734	17	0	0	14
Sodium (Total)	A009	200 mg Na/l	1,269	0	9.605	91.06	0
Taste (Taste Quant)	A004	0 Dilution number at 25°C	4,731	2	0	0	2
Tetrachloromethane (Total)	D008	3 µg/l	47	0	< 0.094	< 0.1	0
Turbidity	A002	4 NTU	4,729	1	< 0.013	0.39	1
		Totals:	**32,682**	**29**			

Table ANH 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 NH4/l	2,698	0	< 0.042	0.25
Chloride g (p g)	D002A	250 mg Cl/l	47	0	6.8	103
(Confirmed)	C004A	0 number/100 ml	47	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	12,367	29	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	4,732	-n/a	0	18
Conductivity (Electrical Conductivity)	D001	2500 µS/cm at 20°C	1,538	0	473.29	874.22
Gross Alpha	F004	0.1 Bq/l	9	1	< 0.02	0.136
Gross Beta	F005	1 Bq/l	9	0	0.077	0.36
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	4,734	0	7.16	7.88
Residual Disinfectant - Free	C009	No abnormal change	12,388	-n/a	< 0.05	0.67
Residual Disinfectant - Total	C010	No abnormal change	12,387	-n/a	0.12	0.99
Sulphate	A007	250 mg SO4/l	47	0	< 9.317	135
Total Indicative Dose (Gross Alpha and Beta)	F007	0.1 mSv/year	1	0	< 0.1	< 0.1
Total Organic Carbon	A017	No abnormal change	47	-n/a	0.46	4.57
Tritium	F006	100 Bq/l	9	0	< 6	< 6
		Totals:	**51,060**	**30**		