

## **Data summary tables for Anglian Water Services (ANG)**

These tables contain a summary of results of monitoring undertaken by the water company in 2016 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 2016*.

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 Anglian Water Services Ltd

Report Date Range: For the whole year 2016

**Table ANG 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 (Works)	A013B	0.1 mg NO <sub>2</sub> /l	1,769	0	< 0.009	< 0.009	0
<b>Totals:</b>			<b>1,769</b>	<b>0</b>			

**Table ANG 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
Coliform Bacteria	C001	0 number/100 ml	19,146	3	0	0	3
E coli	C002	0 number/100 ml	19,146	0	0	0	0
<b>Totals:</b>			<b>38,292</b>	<b>3</b>			

**Table ANG 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 22°C (Indicator)	C007	No abnormal change	19,169	-n/a	0	3
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	19,166	-n/a	0	4
Residual Disinfectant - Free	C009	No abnormal change	19,176	-n/a	0.05	1.29
Residual Disinfectant - Total	C010	No abnormal change	19,176	-n/a	0.3	1.55
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(19,176)	-n/a	0.01	1.12
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	11,341	3	< 0.013	0.14
<b>Totals:</b>			<b>88,028</b>	<b>3</b>		

\*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 ANG 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	15,551	3	0	0	0
E coli	C002	0 number/100 ml	15,551	0	0	0	0
<b>Totals:</b>			<b>31,102</b>	<b>3</b>			

**Table ANG 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	15,584	-n/a	0	54
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	15,578	-n/a	0	15
Residual Disinfectant - Free	C009	No abnormal change	15,584	-n/a	< 0.05	0.69
Residual Disinfectant - Total	C010	No abnormal change	15,584	-n/a	0.12	1.04
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(15,584)	-n/a	0.02	0.089
<b>Totals:</b>			<b>62,330</b>	<b>0</b>		

\*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 ANG 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	1,080	0	< 0.025	< 0.127	0
Benzene	F002	1 µg/l	1,081	0	< 0.013	< 0.06	0
Boron	D005A	1 mg B/l	1,078	0	< 0.068	0.21668	0
Bromate	F003	10 µg BrO <sub>3</sub> /l	1,071	0	< 0.35	2.4608	0
Cyanide	B003	50 µg CN/l	1,078	0	< 1	1.4	0
Fluoride	A027	1.5 mg F/l	980	1	0.099053	1.22884	1
Mercury	B005	1 µg Hg/l	1,078	0	< 0.029	< 0.029	0
Pesticides - Total Substances	B010	0.5 µg/l	1,057	0	0	0.19084	0
Pesticides 2,4-D	P020	0.1 µg/l	345	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	26	0	< 0.001	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	873	0	< 0.003	0.022	0
Pesticides Benazolin	P138	0.1 µg/l	17	0	< 0.005	0.018	0
Pesticides Bentazone	P006	0.1 µg/l	632	0	< 0.004	0.03634	0
Pesticides Bromacil	P086	0.1 µg/l	366	0	< 0.003	< 0.003	0
Pesticides Carbetamide	P010	0.1 µg/l	209	0	< 0.002	0.0158	0
Pesticides Chloridazon	P162	0.1 µg/l	9	0	< 0.004	< 0.004	0
Pesticides Chlortoluron	P014	0.1 µg/l	618	0	< 0.002	< 0.005	0
Pesticides Clopyralid	P018	0.1 µg/l	500	0	< 0.004	0.04398	0
Pesticides Cyanazine	P092	0.1 µg/l	151	0	< 0.002	< 0.00648	0
Pesticides Dichlorprop	P026	0.1 µg/l	431	0	< 0.002	0.00368	0
Pesticides Dieldrin	P028	0.03 µg/l	26	0	< 0.001	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	461	0	< 0.004	< 0.00538	0
Pesticides Flufenacet	P230	0.1 µg/l	9	0	< 0.004	< 0.004	0
Pesticides Fluroxypyr	P040	0.1 µg/l	8	0	< 0.003	< 0.003	0
Pesticides Glyphosate	P042	0.1 µg/l	44	0	< 0.002	0.049	0
Pesticides Heptachlor	P043	0.03 µg/l	26	0	< 0.001	< 0.005	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	26	0	0	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	832	0	< 0.003	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	681	0	< 0.005	< 0.007	0
Pesticides MCPA	P054	0.1 µg/l	422	0	< 0.004	0.004	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	641	0	< 0.003	0.01058	0
Pesticides Metaldehyde	P226	0.1 µg/l	297	18	< 0.003	0.1283	8
Pesticides Metazachlor	P203	0.1 µg/l	17	0	< 0.003	0.006	0
Pesticides Monuron	P113	0.1 µg/l	275	0	< 0.003	< 0.006	0
Pesticides Prometryn	P070	0.1 µg/l	191	0	< 0.004	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	520	0	< 0.003	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	463	0	< 0.002	0.04436	0
Pesticides Quinmerac	P244	0.1 µg/l	107	0	< 0.006	0.03392	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 Simazine	P073	0.1 µg/l	754	0	< 0.005	0.019	0
Pesticides Terbutylazine	P173	0.1 µg/l	8	0	< 0.003	< 0.003	0
Pesticides Terbutryn	P077	0.1 µg/l	664	0	< 0.002	< 0.003	0
Pesticides Trietazine	P132	0.1 µg/l	840	0	< 0.003	< 0.008	0
Radon	F031	100 Bq/l	159	0	8.04	14.02	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	1,102	0	0	2.9616	0
<b>Totals:</b>			<b>21,253</b>	<b>19</b>			

**Table ANG 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	1,081	0	< 0.025	0.43636	0
<b>Totals:</b>			<b>1,081</b>	<b>0</b>			

**Table ANG 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 (Indicator)	D002A	250 mg Cl/l	1,079	0	10.18	124.2
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	2,901	0	0	0
Conductivity (Indicator)	D001	2500 µS/cm	3,036	0	341.37	909.63
Gross Alpha Activity	F004	0.1 Bq/l	60	0	< 0.02	0.098
Gross Beta Activity	F005	1 Bq/l	60	0	0.065	0.42
Sulphate (Indicator)	A007	250 mg SO4/l	1,078	0	< 9.317	151.21
Total organic carbon (indicator)	A017	No abnormal change	1,079	-n/a	0.528	3.98
Tritium (Indicator)	F006	100 Bq/l	59	0	< 5	< 10
<b>Totals:</b>			<b>9,352</b>	<b>0</b>		

Table ANG 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	31	0	< 0.025	0.127	0
Antimony	B008A	5 µg Sb/l	1,252	0	< 0.13	0.5347	0
Arsenic	B001A	10 µg As/l	1,252	0	< 0.112	3.1093	0
Benzene	F002	1 µg/l	31	0	< 0.013	< 0.06	0
Benzo (a) Pyrene	D007	0.01 µg/l	1,250	0	< 0.001	< 0.001	0
Boron	D005A	1 mg B/l	31	0	< 0.068	0.0924	0
Bromate	F003	10 µg BrO3/l	64	0	< 0.35	2.2	0
Cadmium	B002	5 µg Cd/l	1,252	0	< 0.007	0.05	0
Chromium	B004	50 µg Cr/l	1,252	0	< 0.673	< 0.673	0
Copper	A024A	2 mg Cu/l	1,252	2	0.0022	0.55586	2
Cyanide	B003	50 µg CN/l	31	0	< 1	< 1	0
E coli	C002	0 number/100 ml	12,465	1	0	0	1
Enterococci	C003	0 number/100 ml	1,253	1	0	0	1
Fluoride	A027	1.5 mg F/l	171	0	0.086	1.07276	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	1,254	3	< 0.16	6.2845	3
Mercury	B005	1 µg Hg/l	31	0	< 0.029	< 0.029	0
Nickel	B006A	20 µg Ni/l	1,252	2	< 0.186	13.3	2
Nitrate	A012	50 mg NO3/l	2,684	0	< 3.763	39.015	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	2,684	0	0	0.7823	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	2,684	1	< 0.009	0.36	1
Pesticides - Total Substances	B010	0.5 µg/l	24	0	0	0.113	0
Pesticides 2,4-D	P020	0.1 µg/l	4	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	23	0	< 0.001	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	23	0	< 0.003	0.019	0
Pesticides Bentazone	P006	0.1 µg/l	4	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	4	0	< 0.002	0.015	0
Pesticides Chlortoluron	P014	0.1 µg/l	23	0	< 0.005	< 0.005	0
Pesticides Clopyralid	P018	0.1 µg/l	13	0	< 0.004	0.045	0
Pesticides Cyanazine	P092	0.1 µg/l	4	0	< 0.002	< 0.002	0
Pesticides Dichlorprop	P026	0.1 µg/l	4	0	< 0.002	< 0.002	0
Pesticides Dieldrin	P028	0.03 µg/l	23	0	< 0.001	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	23	0	< 0.004	< 0.004	0
Pesticides Heptachlor	P043	0.03 µg/l	23	0	< 0.001	< 0.005	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	23	0	0	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	23	0	< 0.003	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	23	0	< 0.007	< 0.007	0
Pesticides MCPA	P054	0.1 µg/l	4	0	< 0.004	< 0.004	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 MCPP(Mecoprop)	P053	0.1 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	9	0	0.058	0.08	0
Pesticides Monuron	P113	0.1 µg/l	23	0	< 0.006	< 0.006	0
Pesticides Prometryn	P070	0.1 µg/l	23	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	23	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	4	0	0.002	0.031	0
Pesticides Simazine	P073	0.1 µg/l	23	0	< 0.005	0.006	0
Pesticides Terbutryn	P077	0.1 µg/l	23	0	< 0.003	< 0.003	0
Pesticides Trietazine	P132	0.1 µg/l	23	0	< 0.008	< 0.008	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	1,251	0	0	0.014	0
Selenium	B009	10 µg Se/l	1,252	0	< 0.35	3.73	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	9	0	0	0	0
Total Trihalomethanes	D011	100 µg/l	1,273	0	2	65.352	0
<b>Totals:</b>			<b>36,388</b>	<b>10</b>			

Table ANG 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	2,341	0	< 14	< 14	0
Colour	A001	20 mg/l Pt/Co scale	2,465	0	< 0.34	1.3	0
Iron	A022	200 µg Fe/l	3,477	6	< 7	85.22	6
Manganese	A023	50 µg Mn/l	2,467	0	< 1	6.652	0
Organoleptic Odour	A003	0 Dilution number	2,886	6	0	0	6
Organoleptic Taste	A004	0 Dilution number	2,876	0	0	0	0
Sodium	A009	200 mg Na/l	1,255	0	9.3884	87.22	0
Tetrachloromethane	D008	3 µg/l	31	0	0.063	0.094	0
Turbidity	A002	4 nephelometric turbidity units	2,763	1	< 0.013	0.3336	1
<b>Totals:</b>			<b>20,561</b>	<b>13</b>			

**Table ANG 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 NH4/l	3,272	0	< 0.042	0.293
Chloride (Indicator)	D002A	250 mg Cl/l	31	0	17.6	84
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	46	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	12,465	20	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	4,057	-n/a	0	28
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	4,058	-n/a	0	26
Conductivity (Indicator)	D001	2500 µS/cm	21	0	484	614
Gross Alpha Activity	F004	0.1 Bq/l	5	0	< 0.024	< 0.05
Gross Beta Activity	F005	1 Bq/l	5	0	< 0.03	0.83
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	2,440	0	7.09	7.8
Residual Disinfectant - Free	C009	No abnormal change	12,528	-n/a	< 0.05	0.7
Residual Disinfectant - Total	C010	No abnormal change	12,528	-n/a	0.1	1.03
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(12,528)	-n/a	0.01	0.93
Sulphate (Indicator)	A007	250 mg SO4/l	31	0	15.6	117
Total organic carbon (indicator)	A017	No abnormal change	31	-n/a	0.67	4.05
Tritium (Indicator)	F006	100 Bq/l	23	0	< 5	< 10
<b>Totals:</b>			<b>51,541</b>	<b>20</b>		

\*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'.