

## **Data summary tables for Affinity Water (AFW)**

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.

Published 13 July 2017  
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 Affinity Water Ltd

Report Date Range: For the whole year 2016

Table AFW 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	1,114	0	< 0.008	< 0.00885	0
<b>Totals:</b>			<b>1,114</b>	<b>0</b>			

Table AFW 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	6,965	0	0	0	0
E coli	C002	0 number/100 ml	6,965	0	0	0	0
<b>Totals:</b>			<b>13,930</b>	<b>0</b>			

Table AFW 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	12,066	-n/a	0	20
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	12,066	-n/a	0	6
Residual Disinfectant - Total	C010	No abnormal change	7,003	-n/a	0.11	1.07
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	14,832	1	< 0.1	0.42
<b>Totals:</b>			<b>45,967</b>	<b>1</b>		

**Table AFW 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	7,778	8	0	0	1
E coli	C002	0 number/100 ml	7,778	0	0	0	0
<b>Totals:</b>			<b>15,556</b>	<b>8</b>			

**Table AFW 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	7,777	-n/a	0	271
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	7,777	-n/a	0	17
Residual Disinfectant - Total	C010	No abnormal change	7,777	-n/a	0.04	0.7
<b>Totals:</b>			<b>23,331</b>	<b>0</b>		

**Table AFW 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
Radon	F031	100 Bq/l	7	0	3.29	3.94	0
<b>Totals:</b>			<b>7</b>	<b>0</b>			

Table AFW 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	662	0	< 0.04	< 0.04	0
Antimony	B008A	5 µg Sb/l	661	0	< 0.2	0.55116	0
Arsenic	B001A	10 µg As/l	661	0	< 1	2.9466	0
Benzene	F002	1 µg/l	662	0	< 0.02	< 0.02	0
Benzo (a) Pyrene	D007	0.01 µg/l	661	0	< 0.0005	0.0008	0
Boron	D005A	1 mg B/l	665	0	< 0.1	0.1534	0
Bromate	F003	10 µg BrO3/l	661	0	< 0.5	3.338	0
Cadmium	B002	5 µg Cd/l	661	0	< 0.2	< 0.2	0
Chromium	B004	50 µg Cr/l	661	0	< 0.5	3.201	0
Copper	A024A	2 mg Cu/l	661	0	< 0.01	0.54004	0
Cyanide	B003	50 µg CN/l	662	0	< 1	2.9	0
E coli	C002	0 number/100 ml	9,401	0	0	0	0
Enterococci	C003	0 number/100 ml	661	1	0	0	1
Fluoride	A027	1.5 mg F/l	660	0	0.06761	0.67278	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	662	6	< 1	10.0936	6
Mercury	B005	1 µg Hg/l	661	0	< 0.1	< 0.1	0
Nickel	B006A	20 µg Ni/l	661	2	< 2	5.8338	2
Nitrate	A012	50 mg NO3/l	978	0	< 2	44.921	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	950	0	0	< 0.89898	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	984	0	< 0.008	0.194	0
Pesticides - Total Substances	B010	0.5 µg/l	661	0	0	0.162	0
Pesticides 2,4-D	P020	0.1 µg/l	269	0	< 0.007	0.0089	0
Pesticides Atrazine	P004	0.1 µg/l	661	0	< 0.005	0.029	0
Pesticides Bentazone	P006	0.1 µg/l	8	0	< 0.004	< 0.004	0
Pesticides Carbetamide	P010	0.1 µg/l	661	0	< 0.009	0.01638	0
Pesticides Clopyralid	P018	0.1 µg/l	661	0	< 0.012	0.03438	0
Pesticides Desethylatrazine	P182	0.1 µg/l	661	0	< 0.006	0.05038	0
Pesticides Diuron	P032	0.1 µg/l	392	0	< 0.01	0.01107	0
Pesticides Glyphosate	P042	0.1 µg/l	271	0	< 0.003	0.012	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	661	0	< 0.005	0.00776	0
Pesticides Metaldehyde	P226	0.1 µg/l	268	9	< 0.009	0.184	9
Pesticides Metazachlor	P203	0.1 µg/l	269	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	269	0	< 0.008	0.03	0
Pesticides Simazine	P073	0.1 µg/l	661	0	< 0.007	0.016	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	662	0	0	0.005174	0
Selenium	B009	10 µg Se/l	661	0	< 1	2.9912	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	658	0	0	2.3561	0
Total Trihalomethanes	D011	100 µg/l	661	0	0.4886	43.3878	0
<b>Totals:</b>			<b>31,911</b>	<b>18</b>			

**Table AFW 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	2,159	0	< 5	58.7	0
Colour	A001	20 mg/l Pt/Co scale	1,759	0	< 1	1.6	0
Iron	A022	200 µg Fe/l	2,303	1	< 15	48.972	1
Manganese	A023	50 µg Mn/l	2,303	0	< 1	2.8176	0
Organoleptic Odour	A003	0 Dilution number	1,780	2	0	0	2
Organoleptic Taste	A004	0 Dilution number	1,778	0	0	0	0
Sodium	A009	200 mg Na/l	661	0	7.2748	55.47	0
Tetrachloromethane	D008	3 µg/l	659	0	< 0.06	0.1	0
Turbidity	A002	4 nephelometric turbidity units	3,466	0	< 0.1	0.44	0
<b>Totals:</b>			<b>16,868</b>	<b>3</b>			

**Table AFW 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 <sub>4</sub> /l	1,903	0	< 0.04	0.12
Chloride (Indicator)	D002A	250 mg Cl/l	668	0	13	79.31
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	1,486	1	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	9,401	24	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	3,267	-n/a	0	227
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	3,267	-n/a	0	242
Conductivity (Indicator)	D001	2500 µS/cm	3,466	0	337.67	809
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	3,466	1	6.9	7.9
Residual Disinfectant - Total	C010	No abnormal change	9,401	-n/a	0.05	0.95
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	668	0	7	122.31
Total organic carbon (indicator)	A017	No abnormal change	655	-n/a	0.256	3.8
<b>Totals:</b>			<b>37,648</b>	<b>26</b>		