Data summary tables for Affinity Water (AFW)

These tables contain a summary of results of monitoring undertaken by the water company in 2018 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 2018.

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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Table AFW 1: Quality of water leaving service treatment works - European Standards

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests Failed</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
<th>No. of works with failures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrite (Total)</td>
<td>A013B</td>
<td>0.1 mg NO2/l</td>
<td>1,089</td>
<td>0</td>
<td>&lt; 0.008</td>
<td>&lt; 0.009</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td></td>
<td><strong>1,089</strong></td>
<td><strong>0</strong></td>
<td></td>
<td></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

Table AFW 2: Quality of water leaving service treatment works - National Standards

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests Failed</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
<th>No. of works with failures</th>
</tr>
</thead>
<tbody>
<tr>
<td>E coli (faecal coliforms Confirmed)</td>
<td>C002</td>
<td>0 number/100 ml</td>
<td>10,774</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Coliforms (Confirmed)</td>
<td>C001</td>
<td>0 number/100 ml</td>
<td>10,774</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td></td>
<td><strong>21,548</strong></td>
<td><strong>2</strong></td>
<td></td>
<td></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>

Table AFW 3: Quality of water leaving service treatment works - Additional Monitoring Requirements

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests exceeding specification</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colony Counts After 3 Days At 22ºc (Colony Counts)</td>
<td>C007</td>
<td>No abnormal change</td>
<td>13,039</td>
<td>-n/a</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Residual Disinfectant - Total</td>
<td>C010</td>
<td>No abnormal change</td>
<td>10,794</td>
<td>-n/a</td>
<td>0.13</td>
<td>1.08</td>
</tr>
<tr>
<td>Turbidity - Indicator</td>
<td>A002A</td>
<td>1 nephelometric turbidity units</td>
<td>14,332</td>
<td>4</td>
<td>&lt; 0.1</td>
<td>0.47</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td></td>
<td><strong>38,165</strong></td>
<td><strong>4</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table AFW 4: Quality of water leaving service reservoirs - National Standards

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests Failed</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
<th>No. of reservoirs failing standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>E coli (faecal coliforms Confirmed)</td>
<td>C002</td>
<td>0 number/100 ml</td>
<td>7,861</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Coliforms (Confirmed)</td>
<td>C001</td>
<td>0 number/100 ml</td>
<td>7,861</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td></td>
<td><strong>15,722</strong></td>
<td><strong>7</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

Table AFW 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests exceeding specification</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colony Counts After 3 Days At 22øc (Colony Counts)</td>
<td>C007</td>
<td>No abnormal change</td>
<td>7,861</td>
<td>-n/a</td>
<td>0</td>
<td>103</td>
</tr>
<tr>
<td>Residual Disinfectant - Total</td>
<td>C010</td>
<td>No abnormal change</td>
<td>7,863</td>
<td>-n/a</td>
<td>0.05</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td></td>
<td><strong>15,724</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Parameter Code</td>
<td>Prescribed Concentration or Value</td>
<td>Total Number of Tests</td>
<td>Tests Failed</td>
<td>1 percentile (representing a minimum)</td>
<td>99 percentile (representing a maximum)</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------</td>
<td>----------------------------------</td>
<td>-----------------------</td>
<td>-------------</td>
<td>--------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>1,2-Dichloroethane (Total)</td>
<td>F001</td>
<td>3 µg/l</td>
<td>639</td>
<td>0</td>
<td>&lt; 0.04</td>
<td>&lt; 0.04</td>
</tr>
<tr>
<td>Antimony</td>
<td>B008A</td>
<td>5 µg Sb/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 0.2</td>
<td>0.51188</td>
</tr>
<tr>
<td>Arsenic (Total)</td>
<td>B001A</td>
<td>10 µg As/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 1</td>
<td>2.8764</td>
</tr>
<tr>
<td>Benzene (Total)</td>
<td>F002</td>
<td>1 µg/l</td>
<td>660</td>
<td>0</td>
<td>&lt; 0.02</td>
<td>&lt; 0.02</td>
</tr>
<tr>
<td>Benzo[a]Pyrene (Total)</td>
<td>D007</td>
<td>0.01 µg/l</td>
<td>625</td>
<td>0</td>
<td>&lt; 0.0006</td>
<td>0.001074</td>
</tr>
<tr>
<td>Boron</td>
<td>D005A</td>
<td>1 mg B/l</td>
<td>684</td>
<td>0</td>
<td>&lt; 0.1</td>
<td>0.13</td>
</tr>
<tr>
<td>Bromate</td>
<td>F003</td>
<td>10 µg BrO3/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 0.5</td>
<td>3.166</td>
</tr>
<tr>
<td>Cadmium (Total)</td>
<td>B002</td>
<td>5 µg Cd/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 0.2</td>
<td>&lt; 0.2</td>
</tr>
<tr>
<td>Chromium (Total)</td>
<td>B004</td>
<td>50 µg Cr/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 0.5</td>
<td>5.4398</td>
</tr>
<tr>
<td>Copper (Total)</td>
<td>A024A</td>
<td>2 mg Cu/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 0.01</td>
<td>2.8764</td>
</tr>
<tr>
<td>Cyanide (Total)</td>
<td>B003</td>
<td>50 µg CN/l</td>
<td>662</td>
<td>0</td>
<td>&lt; 0.7</td>
<td>3.2</td>
</tr>
<tr>
<td>E coli (faecal coliforms Confirmed)</td>
<td>C002</td>
<td>0 number/100 ml</td>
<td>9,605</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Enterococci (Confirmed)</td>
<td>C003</td>
<td>0 number/100 ml</td>
<td>677</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fluoride (Total)</td>
<td>A027</td>
<td>1.5 mg F/l</td>
<td>676</td>
<td>0</td>
<td>0.058</td>
<td>0.67923</td>
</tr>
<tr>
<td>Lead (10 - will apply 25.12.2013)</td>
<td>B007B</td>
<td>10 µg Pb/l</td>
<td>680</td>
<td>0</td>
<td>&lt; 1</td>
<td>9.7467</td>
</tr>
<tr>
<td>Mercury (Total)</td>
<td>B005</td>
<td>1 µg Hg/l</td>
<td>677</td>
<td>0</td>
<td>&lt; 0.1</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Nickel (Total)</td>
<td>B006A</td>
<td>20 µg Ni/l</td>
<td>677</td>
<td>1</td>
<td>&lt; 2</td>
<td>5.9998</td>
</tr>
<tr>
<td>Nitrate (Total)</td>
<td>A012</td>
<td>50 mg NO3/l</td>
<td>1,010</td>
<td>0</td>
<td>&lt; 2</td>
<td>44.3</td>
</tr>
<tr>
<td>Nitrite - Consumer's Taps</td>
<td>A013A</td>
<td>0.5 mg NO2/l</td>
<td>1,013</td>
<td>0</td>
<td>&lt; 0.008</td>
<td>0.17718</td>
</tr>
<tr>
<td>Nitrate/Nitrite formula</td>
<td>A013C</td>
<td>1 mg NO2/l</td>
<td>982</td>
<td>0</td>
<td>&lt; 0.88634</td>
<td>0</td>
</tr>
<tr>
<td>Pesticides (Total by Calculation)</td>
<td>B010</td>
<td>0.5 µg/l</td>
<td>675</td>
<td>0</td>
<td>0</td>
<td>0.16024</td>
</tr>
<tr>
<td>Pesticides 2,4-D</td>
<td>P020</td>
<td>0.1 µg/l</td>
<td>274</td>
<td>0</td>
<td>&lt; 0.007</td>
<td>0.01125</td>
</tr>
<tr>
<td>Pesticides Atrazine</td>
<td>P004</td>
<td>0.1 µg/l</td>
<td>671</td>
<td>0</td>
<td>&lt; 0.005</td>
<td>0.02328</td>
</tr>
<tr>
<td>Pesticides Bentazone</td>
<td>P006</td>
<td>0.1 µg/l</td>
<td>8</td>
<td>0</td>
<td>&lt; 0.004</td>
<td>0.0044</td>
</tr>
<tr>
<td>Pesticides Carbetamide</td>
<td>P010</td>
<td>0.1 µg/l</td>
<td>674</td>
<td>1</td>
<td>&lt; 0.009</td>
<td>0.024</td>
</tr>
<tr>
<td>Pesticides Clopyralid</td>
<td>P018</td>
<td>0.1 µg/l</td>
<td>649</td>
<td>0</td>
<td>&lt; 0.02</td>
<td>0.0355</td>
</tr>
<tr>
<td>Pesticides Desethylatrazine</td>
<td>P182</td>
<td>0.1 µg/l</td>
<td>672</td>
<td>0</td>
<td>&lt; 0.006</td>
<td>0.044</td>
</tr>
<tr>
<td>Pesticides Diuron</td>
<td>P032</td>
<td>0.1 µg/l</td>
<td>390</td>
<td>0</td>
<td>&lt; 0.01</td>
<td>0.011</td>
</tr>
<tr>
<td>Pesticides Glyphosate</td>
<td>P042</td>
<td>0.1 µg/l</td>
<td>285</td>
<td>0</td>
<td>&lt; 0.003</td>
<td>0.00728</td>
</tr>
<tr>
<td>Pesticides MCPP (Mecoprop)</td>
<td>P053</td>
<td>0.1 µg/l</td>
<td>642</td>
<td>0</td>
<td>&lt; 0.005</td>
<td>0.01171</td>
</tr>
<tr>
<td>Pesticides Metaldehyde</td>
<td>P226</td>
<td>0.1 µg/l</td>
<td>262</td>
<td>0</td>
<td>&lt; 0.009</td>
<td>0.06109</td>
</tr>
<tr>
<td>Pesticides Metazachlor</td>
<td>P203</td>
<td>0.1 µg/l</td>
<td>262</td>
<td>0</td>
<td>&lt; 0.005</td>
<td>0.00517</td>
</tr>
<tr>
<td>Pesticides Propyzamide</td>
<td>P071</td>
<td>0.1 µg/l</td>
<td>284</td>
<td>0</td>
<td>&lt; 0.008</td>
<td>0.05375</td>
</tr>
<tr>
<td>Pesticides Simazine</td>
<td>P073</td>
<td>0.1 µg/l</td>
<td>662</td>
<td>0</td>
<td>&lt; 0.007</td>
<td>0.015</td>
</tr>
<tr>
<td>Polycyclic Aromatic Hydrocarbons (Total by Calculation)</td>
<td>B011F</td>
<td>0.1 µg/l</td>
<td>631</td>
<td>0</td>
<td>0</td>
<td>0.00484</td>
</tr>
<tr>
<td>Selenium (Total)</td>
<td>B009</td>
<td>10 µg Se/l</td>
<td>673</td>
<td>0</td>
<td>&lt; 1</td>
<td>2.7178</td>
</tr>
<tr>
<td>Trichloroethene &amp; Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)</td>
<td>D009B</td>
<td>10 µg/l</td>
<td>665</td>
<td>0</td>
<td>0</td>
<td>2.767</td>
</tr>
<tr>
<td>Trichloromethanes (Total by Calculation)</td>
<td>D011</td>
<td>100 µg/l</td>
<td>665</td>
<td>0</td>
<td>0.6198</td>
<td>58.3588</td>
</tr>
</tbody>
</table>

Totals: 32,411 12
### Table AFW 10: Quality of water at consumer’s tap (zones) - National Standards

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests Failed</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
<th>No. of zones failing standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (Total)</td>
<td>A021</td>
<td>200 µg Al/l</td>
<td>2,283</td>
<td>0</td>
<td>&lt; 5</td>
<td>55.648</td>
<td>0</td>
</tr>
<tr>
<td>Colour</td>
<td>A001</td>
<td>20 mg/l Pt/Co scale</td>
<td>2,542</td>
<td>0</td>
<td>&lt; 1</td>
<td>1.7</td>
<td>0</td>
</tr>
<tr>
<td>Iron (Total)</td>
<td>A022</td>
<td>200 µg Fe/l</td>
<td>2,379</td>
<td>0</td>
<td>&lt; 15</td>
<td>50.82</td>
<td>0</td>
</tr>
<tr>
<td>Manganese (Total)</td>
<td>A023</td>
<td>50 µg Mn/l</td>
<td>2,382</td>
<td>0</td>
<td>&lt; 1</td>
<td>3.1572</td>
<td>0</td>
</tr>
<tr>
<td>Odour</td>
<td>A003</td>
<td>0 Dilution number</td>
<td>2,746</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Sodium (Total)</td>
<td>A009</td>
<td>200 mg Na/l</td>
<td>677</td>
<td>0</td>
<td>8.1168</td>
<td>66.764</td>
<td>0</td>
</tr>
<tr>
<td>Taste (Taste Quant)</td>
<td>A004</td>
<td>0 Dilution number</td>
<td>2,744</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tetrachloromethane (Total)</td>
<td>D008</td>
<td>3 µg/l</td>
<td>665</td>
<td>0</td>
<td>&lt; 0.06</td>
<td>0.1036</td>
<td>0</td>
</tr>
<tr>
<td>Turbidity</td>
<td>A002</td>
<td>4 nephelometric turbidity units</td>
<td>3,801</td>
<td>0</td>
<td>&lt; 0.1</td>
<td>0.4698</td>
<td>0</td>
</tr>
</tbody>
</table>

**Totals:** 20,219 7

### Table AFW 11: Quality of water at consumer’s tap (zones) - Additional Monitoring Requirements

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Code</th>
<th>Prescribed Concentration or Value</th>
<th>Total Number of Tests</th>
<th>Tests exceeding specification</th>
<th>1 percentile (representing a minimum)</th>
<th>99 percentile (representing a maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium (Total)</td>
<td>A014</td>
<td>0.5 mg NH4/l</td>
<td>2,666</td>
<td>0</td>
<td>&lt; 0.04</td>
<td>0.12</td>
</tr>
<tr>
<td>Chloride</td>
<td>D002A</td>
<td>250 mg Cl/l</td>
<td>677</td>
<td>0</td>
<td>16</td>
<td>100.66</td>
</tr>
<tr>
<td>Clostridum Perfringens (Sulphite-reducing Clostridia) (Confirmed)</td>
<td>C004A</td>
<td>0 number/100 ml</td>
<td>1,973</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Coliform Bacteria (Indicator)</td>
<td>C001A</td>
<td>0 number/100 ml</td>
<td>9,605</td>
<td>31</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Colony Counts After 3 Days At 22øc (Colony Counts)</td>
<td>C007</td>
<td>No abnormal change</td>
<td>3,364</td>
<td>-n/a</td>
<td>0</td>
<td>125</td>
</tr>
<tr>
<td>Conductivity (Electrical Conductivity)</td>
<td>D001</td>
<td>2500 µS/cm</td>
<td>3,467</td>
<td>0</td>
<td>385.68</td>
<td>797</td>
</tr>
<tr>
<td>Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)</td>
<td>A006</td>
<td>6.5 - 9.5 pH Value</td>
<td>3,547</td>
<td>0</td>
<td>6.9</td>
<td>7.8</td>
</tr>
<tr>
<td>Residual Disinfectant - Total</td>
<td>C010</td>
<td>No abnormal change</td>
<td>9,603</td>
<td>-n/a</td>
<td>0.07</td>
<td>0.96</td>
</tr>
<tr>
<td>Sulphate</td>
<td>A007</td>
<td>250 mg SO4/l</td>
<td>677</td>
<td>0</td>
<td>8</td>
<td>124.22</td>
</tr>
<tr>
<td>Total Organic Carbon</td>
<td>A017</td>
<td>No abnormal change</td>
<td>673</td>
<td>-n/a</td>
<td>0.3</td>
<td>4.426</td>
</tr>
</tbody>
</table>

**Totals:** 36,252 32