

Data summary tables for Thames Water (TMS)

These tables contain a summary of results of monitoring undertaken by the water company in 2015 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 2015*.

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 Thames Water Utilities Ltd

Report Date Range: For the whole year 2015

Table TMS 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 ₂ /l | 4,607 | 0 | < 0.01 | 0.01 | 0 |
| Totals: | | | 4,607 | 0 | | | |

Table TMS 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 | 17,794 | 5 | 0 | 0 | 5 |
| E coli | C002 | 0 number/100 ml | 17,794 | 0 | 0 | 0 | 0 |
| Totals: | | | 35,588 | 5 | | | |

Table TMS 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 | 17,801 | -n/a | 0 | 6 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 17,802 | -n/a | 0 | 3 |
| Residual Disinfectant - Total | C010 | No abnormal change | 17,836 | -n/a | 0.25 | 0.93 |
| Turbidity (Indicator) | A002A | 1 nephelometric turbidity units | 17,817 | 4 | < 0.06 | 0.19 |
| Totals: | | | 71,256 | 4 | | |

Table TMS 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 | 19,308 | 24 | 0 | 0 | 0 |
| E coli | C002 | 0 number/100 ml | 19,308 | 2 | 0 | 0 | 2 |
| Totals: | | | 38,616 | 26 | | | |

Table TMS 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 | 19,301 | -n/a | 0 | 47 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 19,301 | -n/a | 0 | 15 |
| Residual Disinfectant - Total | C010 | No abnormal change | 19,338 | -n/a | 0.11 | 0.71 |
| Totals: | | | 57,940 | 0 | | |

Table TMS 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 |
|-------------------------------|----------------|-----------------------------------|-----------------------|--------------|---------------------------------------|--|------------------------------------|
| Bromate | F003 | 10 µg BrO ₃ /l | 696 | 0 | < 0.7 | 2.209 | 0 |
| Cyanide | B003 | 50 µg CN/l | 705 | 0 | < 0.7 | 4.782 | 0 |
| Mercury | B005 | 1 µg Hg/l | 703 | 0 | < 0.09 | < 0.09 | 0 |
| Pesticides - Total Substances | B010 | 0.5 µg/l | 779 | 0 | 0 | 0.1046 | 0 |
| Pesticides 2,4,5-T | P076 | 0.1 µg/l | 716 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides 2,4,-Db | P082 | 0.1 µg/l | 716 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides 2,4-D | P020 | 0.1 µg/l | 716 | 0 | < 0.004 | < 0.00732 | 0 |
| Pesticides Ametryn | P222 | 0.1 µg/l | 702 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Atrazine | P004 | 0.1 µg/l | 705 | 0 | < 0.005 | 0.04494 | 0 |
| Pesticides Bentazone | P006 | 0.1 µg/l | 716 | 0 | < 0.005 | 0.008 | 0 |
| Pesticides Bromoxynil | P008 | 0.1 µg/l | 716 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Carbendazim | P150 | 0.1 µg/l | 705 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Carbetamide | P010 | 0.1 µg/l | 705 | 0 | < 0.003 | 0.005 | 0 |
| Pesticides Chlortoluron | P014 | 0.1 µg/l | 705 | 0 | < 0.003 | 0.007 | 0 |
| Pesticides Clopyralid | P018 | 0.1 µg/l | 716 | 0 | < 0.01 | 0.01183 | 0 |
| Pesticides Dicamba | P025 | 0.1 µg/l | 716 | 0 | < 0.007 | < 0.007 | 0 |
| Pesticides Dichlorprop | P026 | 0.1 µg/l | 716 | 0 | < 0.004 | < 0.00483 | 0 |
| Pesticides Diuron | P032 | 0.1 µg/l | 705 | 0 | < 0.003 | 0.03082 | 0 |
| Pesticides Fenoprop | P105 | 0.1 µg/l | 716 | 0 | < 0.004 | < 0.008 | 0 |
| Pesticides Flufenacet | P230 | 0.1 µg/l | 192 | 0 | < 0.003 | 0.00407 | 0 |
| Pesticides Fluroxypyr | P040 | 0.1 µg/l | 716 | 0 | < 0.006 | < 0.006 | 0 |
| Pesticides Ioxynil | P049 | 0.1 µg/l | 716 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Isoproturon | P048 | 0.1 µg/l | 705 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides Linuron | P051 | 0.1 µg/l | 705 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides MCPA | P054 | 0.1 µg/l | 707 | 0 | < 0.006 | < 0.00876 | 0 |
| Pesticides MCPB | P055 | 0.1 µg/l | 716 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides MCPP(Mecoprop) | P053 | 0.1 µg/l | 716 | 0 | < 0.008 | < 0.008 | 0 |
| Pesticides Metaldehyde | P226 | 0.1 µg/l | 706 | 2 | < 0.005 | 0.08716 | 1 |
| Pesticides Metazachlor | P203 | 0.1 µg/l | 195 | 0 | < 0.002 | 0.004 | 0 |
| Pesticides Monuron | P113 | 0.1 µg/l | 705 | 0 | < 0.003 | 0.008 | 0 |
| Pesticides Pentachlorophenol | P060 | 0.1 µg/l | 716 | 0 | < 0.004 | < 0.008 | 0 |
| Pesticides Picloram | P122 | 0.1 µg/l | 716 | 0 | < 0.008 | < 0.016 | 0 |
| Pesticides Prometryn | P070 | 0.1 µg/l | 702 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Propazine | P066 | 0.1 µg/l | 702 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Propyzamide | P071 | 0.1 µg/l | 705 | 0 | < 0.004 | 0.014 | 0 |
| Pesticides Quinmerac | P244 | 0.1 µg/l | 197 | 0 | < 0.004 | 0.009 | 0 |

Table TMS 6: Quality of water leaving bulk supply points - European Standards (cont.)

| 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 | 705 | 0 | < 0.005 | 0.016 | 0 |
| Pesticides Tebuthiuron | P189 | 0.1 µg/l | 702 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Terbutryn | P077 | 0.1 µg/l | 702 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Trichlopyr | P131 | 0.1 µg/l | 716 | 0 | < 0.005 | < 0.005 | 0 |
| Totals: | | | 26,896 | 2 | | | |

Table TMS 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) |
|-------------------------------------|----------------|-----------------------------------|-----------------------|-------------------------------|---------------------------------------|--|
| Clostridium Perfringens (Indicator) | C004A | 0 number/100 ml | 3,369 | 2 | 0 | 0 |
| Gross Alpha Activity | F004 | 0.1 Bq/l | 177 | 0 | < 0.04 | 0.09 |
| Gross Beta Activity | F005 | 1 Bq/l | 177 | 0 | 0.03 | 0.2422 |
| Total organic carbon (indicator) | A017 | No abnormal change | 703 | -n/a | 0.2 | 2.8 |
| Totals: | | | 4,426 | 2 | | |

Table TMS 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 | 1,928 | 0 | < 0.2 | < 0.2 | 0 |
| Antimony | B008A | 5 µg Sb/l | 1,934 | 0 | < 0.1 | < 0.8 | 0 |
| Arsenic | B001A | 10 µg As/l | 1,934 | 0 | < 0.3 | 1.5 | 0 |
| Benzene | F002 | 1 µg/l | 1,928 | 0 | < 0.1 | < 0.1 | 0 |
| Benzo (a) Pyrene | D007 | 0.01 µg/l | 1,994 | 0 | < 0.001 | < 0.001 | 0 |
| Boron | D005A | 1 mg B/l | 1,939 | 0 | 0.013 | 0.108 | 0 |
| Bromate | F003 | 10 µg BrO3/l | 90 | 0 | < 0.7 | 3.8 | 0 |
| Cadmium | B002 | 5 µg Cd/l | 1,934 | 0 | < 0.1 | < 0.1 | 0 |
| Chromium | B004 | 50 µg Cr/l | 1,938 | 0 | < 0.9 | 1.4 | 0 |
| Copper | A024A | 2 mg Cu/l | 1,915 | 0 | < 0.004 | 0.40872 | 0 |
| Cyanide | B003 | 50 µg CN/l | 9 | 0 | < 0.7 | < 0.7 | 0 |
| E coli | C002 | 0 number/100 ml | 24,119 | 3 | 0 | 0 | 3 |
| Enterococci | C003 | 0 number/100 ml | 1,917 | 2 | 0 | 0 | 2 |
| Fluoride | A027 | 1.5 mg F/l | 1,913 | 0 | 0.06714 | 0.47574 | 0 |
| Lead (>10 µg/l) | B007B | 10 µg Pb/l | 1,915 | 15 | < 0.2 | 8.884 | 15 |
| Mercury | B005 | 1 µg Hg/l | 9 | 0 | < 0.09 | < 0.09 | 0 |
| Nickel | B006A | 20 µg Ni/l | 1,918 | 8 | < 1.3 | 7.743 | 6 |
| Nitrate | A012 | 50 mg NO3/l | 6,842 | 0 | 7.2 | 36.4 | 0 |
| Nitrate/Nitrite Formula | A013C | 1 mg NO2/l | 6,842 | 0 | 0.15 | 0.73 | 0 |
| Nitrite (Consumers tap) | A013A | 0.5 mg NO2/l | 6,845 | 0 | < 0.01 | 0.21 | 0 |
| Pesticides - Total Substances | B010 | 0.5 µg/l | 14 | 0 | 0 | 0.19 | 0 |
| Pesticides 2,4,5-T | P076 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides 2,4,-Db | P082 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides 2,4-D | P020 | 0.1 µg/l | 9 | 0 | < 0.004 | 0.01 | 0 |
| Pesticides Aldrin | P002 | 0.03 µg/l | 10 | 0 | < 0.001 | < 0.003 | 0 |
| Pesticides Ametryn | P222 | 0.1 µg/l | 9 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Atrazine | P004 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Bentazone | P006 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Bromoxynil | P008 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Carbendazim | P150 | 0.1 µg/l | 9 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Carbetamide | P010 | 0.1 µg/l | 9 | 0 | < 0.003 | 0.011 | 0 |
| Pesticides Chlortoluron | P014 | 0.1 µg/l | 9 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Clopyralid | P018 | 0.1 µg/l | 9 | 0 | < 0.01 | 0.033 | 0 |
| Pesticides Dicamba | P025 | 0.1 µg/l | 9 | 0 | < 0.007 | < 0.007 | 0 |
| Pesticides Dichlorprop | P026 | 0.1 µg/l | 9 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides Dieldrin | P028 | 0.03 µg/l | 7 | 0 | < 0.002 | 0.003 | 0 |

Table TMS 9: Quality of water at consumer's tap (zones) - European Standards (cont.)

| 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 Diuron | P032 | 0.1 µg/l | 9 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Fenoprop | P105 | 0.1 µg/l | 9 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides Flufenacet | P230 | 0.1 µg/l | 9 | 0 | < 0.003 | 0.003 | 0 |
| Pesticides Fluroxypyr | P040 | 0.1 µg/l | 9 | 0 | < 0.006 | < 0.006 | 0 |
| Pesticides Heptachlor | P043 | 0.03 µg/l | 9 | 0 | < 0.001 | < 0.004 | 0 |
| Pesticides Heptachlor epoxide | P044 | 0.03 µg/l | 8 | 0 | < 0.001 | < 0.002 | 0 |
| Pesticides Ioxynil | P049 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Isoproturon | P048 | 0.1 µg/l | 9 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides Linuron | P051 | 0.1 µg/l | 9 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides MCPA | P054 | 0.1 µg/l | 9 | 0 | < 0.006 | < 0.006 | 0 |
| Pesticides MCPB | P055 | 0.1 µg/l | 9 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides MCPP(Mecoprop) | P053 | 0.1 µg/l | 9 | 0 | < 0.008 | < 0.008 | 0 |
| Pesticides Metaldehyde | P226 | 0.1 µg/l | 9 | 2 | < 0.005 | 0.107 | 1 |
| Pesticides Metazachlor | P203 | 0.1 µg/l | 9 | 0 | < 0.002 | 0.004 | 0 |
| Pesticides Monuron | P113 | 0.1 µg/l | 9 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Pentachlorophenol | P060 | 0.1 µg/l | 9 | 0 | < 0.004 | < 0.004 | 0 |
| Pesticides Picloram | P122 | 0.1 µg/l | 9 | 0 | < 0.008 | < 0.008 | 0 |
| Pesticides Prometryn | P070 | 0.1 µg/l | 9 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Propazine | P066 | 0.1 µg/l | 9 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Propyzamide | P071 | 0.1 µg/l | 9 | 0 | < 0.004 | 0.021 | 0 |
| Pesticides Quinmerac | P244 | 0.1 µg/l | 9 | 0 | < 0.004 | 0.024 | 0 |
| Pesticides Simazine | P073 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Pesticides Tebuthiuron | P189 | 0.1 µg/l | 9 | 0 | < 0.002 | < 0.002 | 0 |
| Pesticides Terbutryn | P077 | 0.1 µg/l | 9 | 0 | < 0.003 | < 0.003 | 0 |
| Pesticides Trichlopyr | P131 | 0.1 µg/l | 9 | 0 | < 0.005 | < 0.005 | 0 |
| Polycyclic aromatic hydrocarbons | B011F | 0.1 µg/l | 1,962 | 0 | 0 | 0.004 | 0 |
| Selenium | B009 | 10 µg Se/l | 1,934 | 0 | < 0.8 | 2.7 | 0 |
| Tetrachloroethene/Trichloroethene - sum of two substances | D009B | 10 µg/l | 1,927 | 0 | 0 | 1.472 | 0 |
| Total Trihalomethanes | D011 | 100 µg/l | 1,941 | 0 | 0 | 29.374 | 0 |
| Totals: | | | 77,999 | 30 | | | |

Table TMS 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 | 7,932 | 2 | < 1.4 | 14.7 | 2 |
| Colour | A001 | 20 mg/l Pt/Co scale | 8,630 | 1 | < 0.5 | 2.4 | 1 |
| Iron | A022 | 200 µg Fe/l | 8,314 | 11 | < 2 | 34.155 | 10 |
| Manganese | A023 | 50 µg Mn/l | 7,931 | 0 | < 0.8 | 2.5 | 0 |
| Organoleptic Odour | A003 | 0 Dilution number | 4,512 | 4 | 0 | 0 | 4 |
| Organoleptic Taste | A004 | 0 Dilution number | 4,506 | 1 | 0 | 0 | 1 |
| Sodium | A009 | 200 mg Na/l | 1,942 | 0 | 6.143 | 44.914 | 0 |
| Tetrachloromethane | D008 | 3 µg/l | 1,928 | 0 | < 0.2 | < 0.2 | 0 |
| Turbidity | A002 | 4 nephelometric turbidity units | 8,636 | 4 | < 0.06 | 0.19 | 4 |
| Totals: | | | 54,331 | 23 | | | |

Table TMS 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 | 8,640 | 0 | < 0.03 | 0.22 |
| Chloride (Indicator) | D002A | 250 mg Cl/l | 2,011 | 0 | 12.8748 | 63.6872 |
| Clostridium Perfringens (Indicator) | C004A | 0 number/100 ml | 6,264 | 1 | 0 | 0 |
| Coliform Bacteria (Indicator) | C001A | 0 number/100 ml | 24,119 | 58 | 0 | 0 |
| Colony Counts After 3 Days At 22°C (Indicator) | C007 | No abnormal change | 8,826 | -n/a | 0 | 52 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 8,826 | -n/a | 0 | 32 |
| Conductivity (Indicator) | D001 | 2500 µS/cm | 8,630 | 0 | 404 | 742 |
| Gross Alpha Activity | F004 | 0.1 Bq/l | 10 | 0 | < 0.04 | 0.08 |
| Gross Beta Activity | F005 | 1 Bq/l | 9 | 0 | 0.05 | 0.28 |
| Hydrogen ion (pH) | A006 | 6.5 - 9.5 pH Value | 8,630 | 0 | 7.1 | 8.1 |
| Residual Disinfectant - Total | C010 | No abnormal change | 24,157 | -n/a | 0.15 | 0.81 |
| Sulphate (Indicator) | A007 | 250 mg SO4/l | 2,011 | 0 | 9.124 | 92.188 |
| Total organic carbon (indicator) | A017 | No abnormal change | 9 | -n/a | 0.6 | 3.3 |
| Totals: | | | 102,142 | 59 | | |