

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

|  |              |           |   |             |             |                          |                      |                                      |
|--|--------------|-----------|---|-------------|-------------|--------------------------|----------------------|--------------------------------------|
| <b>Water Supply Zone:</b> R46                |              |           | THATCHAM SOUTH                              |             |             | <b>Zone No.:</b> 312     |                      |                                      |
|  |              |           |   |             |             | <b>Population:</b> 24576 |                      |                                      |
| <b>Time Period: 01/01/2014 to 31/12/2014</b> |              |           | <b>Concentration or Value (all samples)</b> |             |             | <b>No. of Samples</b>    |                      |                                      |
| <b>Date extracted: 10/04/2015</b>            |              |           | <b>Min.</b>                                 | <b>Mean</b> | <b>Max.</b> | <b>Total</b>             | <b>Contra-vening</b> | <b>% of samples contravening PCV</b> |
| Coliform bacteria                            | no./100ml    | 0         | 0   | 0           | 0           | 60                       | 0                    | 0                                    |
| <i>E. coli</i>                               | no./100ml    | 0         | 0   | 0           | 0           | 60                       | 0                    | 0                                    |
| <i>Enterococci</i>                           | no./100ml    | 0         | 0   | 0           | 0           | 8                        | 0                    | 0                                    |
| <i>Clostridium perfringens</i>               | no./100ml    | 0         | 0   | 0           | 0           | 8                        | 0                    | 0                                    |
| Colony count 22°C                            | cfu/ml       | -         | 0   | 0           | 0           | 24                       | 0                    | 0                                    |
| Colony count 37°C                            | cfu/ml       | -         | 0   | 0.042       | 1           | 24                       | 0                    | 0                                    |
| Residual Disinfectant                        | mg/l         | -         | 0.12  | 0.346       | 0.68        | 61                       | 0                    | 0                                    |
| Colour (Pt/Co scale)                         | mg/lPt/Co    | 20        | <0.400                                      | 0.788       | 0.9         | 24                       | 0                    | 0                                    |
| Hydrogen Ion                                 | pH           | 6.50-9.50 | 7.4   | 7.463       | 7.7         | 24                       | 0                    | 0                                    |
| Turbidity                                    | FTU          | 4         | <0.060                                      | 0.082       | 0.38        | 24                       | 0                    | 0                                    |
| Conductivity at 20°C                         | uS/cm        | 2500      | 423   | 438.958     | 444         | 24                       | 0                    | 0                                    |
| Ammonium as NH4                              | mg/l         | 0.5       | <0.030                                      | <0.030      | <0.030      | 24                       | 0                    | 0                                    |
| Chloride as Cl                               | mg/l         | 250       | 11.87                                       | 12.509      | 12.98       | 8                        | 0                    | 0                                    |
| Sodium as Na                                 | mg/l         | 200       | 7.7   | 8.25        | 8.7         | 8                        | 0                    | 0                                    |
| Sulphate as SO4                              | mg/l         | 250       | 14.2  | 14.663      | 15.2        | 8                        | 0                    | 0                                    |
| Nitrate as NO3                               | mg/l         | 50        | 2.1   | 2.588       | 3.2         | 8                        | 0                    | 0                                    |
| Nitrite as NO2                               | mg/l         | 0.5       | <0.010                                      | <0.010      | <0.010      | 8                        | 0                    | 0                                    |
| Nitrate/Nitrite calculation                  | mg/l         | 1         | 0.04  | 0.051       | 0.06        | 8                        | 0                    | 0                                    |
| Total Organic Carbon as C                    | mg/l         | -         | 0.2   | 0.375       | 0.6         | 8                        | 0                    | 0                                    |
| Total Hardness as CaCO3                      | mg/l         | N/A       | 239   | 241         | 243         | 2                        | 0                    | 0                                    |
| Odour (quantatative)                         | dilution no. | 0         | 0   | 0.167       | 4           | 24                       | 1                    | 4.2                                  |
| Taste (quantatative)                         | dilution no. | 0         | 0   | 0           | 0           | 23                       | 0                    | 0                                    |
| Iron as Fe                                   | ug/l         | 200       | <2.000                                      | 2.842       | 8.4         | 12                       | 0                    | 0                                    |
| Manganese as Mn                              | ug/l         | 50        | <0.800                                      | 13.188      | 98.9        | 8                        | 1                    | 12.5                                 |
| Aluminium as Al                              | ug/l         | 200       | <1.400                                      | 11.338      | 49.6        | 8                        | 0                    | 0                                    |
| Antimony as Sb                               | ug/l         | 5         | <0.800                                      | <0.800      | <0.800      | 8                        | 0                    | 0                                    |
| Arsenic as As                                | ug/l         | 10        | <0.300                                      | 0.313       | 0.4         | 8                        | 0                    | 0                                    |
| Cadmium as Cd                                | ug/l         | 5         | <0.100                                      | <0.100      | <0.100      | 8                        | 0                    | 0                                    |
| Chromium as Cr                               | ug/l         | 50        | 0.8   | 0.888       | <0.900      | 8                        | 0                    | 0                                    |
| Copper as Cu                                 | mg/l         | 2         | <0.004                                      | 0.032       | 0.109       | 8                        | 0                    | 0                                    |
| Lead as Pb                                   | ug/l         | 10        | <0.200                                      | 1.425       | 4.7         | 8                        | 0                    | 0                                    |
| Mercury as Hg                                | ug/l         | 1         | <0.040                                      | <0.084      | <0.090      | 8                        | 0                    | 0                                    |
| Nickel as Ni                                 | ug/l         | 20        | <1.300                                      | 1.7         | 2.2         | 8                        | 0                    | 0                                    |
| Fluoride as F                                | mg/l         | 1.5       | 0.23  | 0.277       | 0.314       | 8                        | 0                    | 0                                    |
| Selenium as Se                               | ug/l         | 10        | 2.3   | 2.538       | 2.8         | 8                        | 0                    | 0                                    |
| Boron as B                                   | mg/l         | 1         | 0.016                                       | 0.018       | 0.021       | 8                        | 0                    | 0                                    |
| Bromate as BrO3                              | ug/l         | 10        | <0.700                                      | <0.700      | <0.700      | 8                        | 0                    | 0                                    |
| Cyanide as CN                                | ug/l         | 50        | <0.700                                      | <0.700      | <0.700      | 8                        | 0                    | 0                                    |
| PAHs (Sum of 4 substances)                   | ug/l         | 0.1       | 0   | 0.001       | 0.009       | 8                        | 0                    | 0                                    |
| Benzo (a) pyrene                             | ug/l         | 0.01      | <0.001                                      | 0.001       | 0.002       | 8                        | 0                    | 0                                    |
| Trihalomethanes                              | ug/l         | 100       | 0.7   | 1.9         | 3.9         | 8                        | 0                    | 0                                    |
| Tetra- & Trichloroethene calc                | ug/l         | 10        | 0   | 0           | 0           | 8                        | 0                    | 0                                    |
| Tetrachloromethane                           | ug/l         | 3         | <0.200                                      | <0.200      | <0.200      | 8                        | 0                    | 0                                    |
| 1,2 dichloroethane                           | ug/l         | 3         | <0.200                                      | <0.263      | <0.300      | 8                        | 0                    | 0                                    |

NOTE: PCV = Prescribed Concentration or Value

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

| <b>Water Supply Zone:</b> R46                |       |     | THATCHAM SOUTH                |        |        | <b>Zone No.:</b> 312     |               |                               |
|--|-------|-----|-------------------------------|--------|--------|--------------------------|---------------|-------------------------------|
|  |       |     |                               |        |        | <b>Population:</b> 24576 |               |                               |
| <b>Time Period:</b> 01/01/2014 to 31/12/2014 |       |     | <b>Concentration or Value</b> |        |        | <b>No. of Samples</b>    |               |                               |
| <b>Date extracted:</b> 10/04/2015            |       |     | <b>(all samples)</b>          |        |        |                          |               |                               |
| Parameter                                    | Units | PCV | Min.                          | Mean   | Max.   | Total                    | Contra-vening | % of samples contravening PCV |
| Benzene                                      | ug/l  | 1   | <0.100                        | <0.100 | <0.100 | 8                        | 0             | 0                             |
| Atrazine                                     | ug/l  | 0.1 | <0.005                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Bentazone                                    | ug/l  | 0.1 | <0.005                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Bromoxynil                                   | ug/l  | 0.1 | <0.002                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Carbetamide                                  | ug/l  | 0.1 | <0.003                        | <0.003 | <0.003 | 8                        | 0             | 0                             |
| Chlortoluron                                 | ug/l  | 0.1 | <0.003                        | <0.003 | <0.003 | 8                        | 0             | 0                             |
| Clopyralid                                   | ug/l  | 0.1 | <0.009                        | <0.010 | <0.010 | 8                        | 0             | 0                             |
| 2,4-D  | ug/l  | 0.1 | <0.003                        | <0.004 | <0.004 | 8                        | 0             | 0                             |
| Dicamba                                      | ug/l  | 0.1 | <0.007                        | <0.007 | <0.007 | 8                        | 0             | 0                             |
| Dichlorprop                                  | ug/l  | 0.1 | <0.002                        | <0.004 | <0.006 | 8                        | 0             | 0                             |
| Diuron                                       | ug/l  | 0.1 | <0.003                        | <0.003 | <0.003 | 8                        | 0             | 0                             |
| Fluroxypyr                                   | ug/l  | 0.1 | <0.003                        | <0.005 | <0.006 | 8                        | 0             | 0                             |
| Isoproturon                                  | ug/l  | 0.1 | <0.004                        | <0.004 | <0.004 | 8                        | 0             | 0                             |
| Ioxynil                                      | ug/l  | 0.1 | <0.002                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Linuron                                      | ug/l  | 0.1 | <0.004                        | <0.004 | <0.004 | 8                        | 0             | 0                             |
| Mecoprop                                     | ug/l  | 0.1 | <0.003                        | <0.007 | <0.008 | 8                        | 0             | 0                             |
| MCPA   | ug/l  | 0.1 | <0.002                        | <0.005 | <0.006 | 8                        | 0             | 0                             |
| MCPB   | ug/l  | 0.1 | <0.004                        | <0.005 | <0.008 | 8                        | 0             | 0                             |
| Pentachlorophenol                            | ug/l  | 0.1 | <0.002                        | <0.004 | <0.004 | 8                        | 0             | 0                             |
| Propazine                                    | ug/l  | 0.1 | <0.002                        | <0.002 | <0.002 | 8                        | 0             | 0                             |
| Prometryn                                    | ug/l  | 0.1 | <0.002                        | <0.002 | <0.002 | 8                        | 0             | 0                             |
| Propyzamide                                  | ug/l  | 0.1 | <0.004                        | <0.004 | <0.004 | 8                        | 0             | 0                             |
| Simazine                                     | ug/l  | 0.1 | <0.005                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| 2,4,5-T                                      | ug/l  | 0.1 | <0.003                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Terbutryn                                    | ug/l  | 0.1 | <0.003                        | <0.003 | <0.003 | 8                        | 0             | 0                             |
| 2,4-DB                                       | ug/l  | 0.1 | <0.004                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Fenoprop                                     | ug/l  | 0.1 | <0.003                        | <0.004 | <0.004 | 8                        | 0             | 0                             |
| Monuron                                      | ug/l  | 0.1 | <0.003                        | <0.003 | <0.003 | 8                        | 0             | 0                             |
| Picloram                                     | ug/l  | 0.1 | <0.005                        | <0.007 | <0.008 | 8                        | 0             | 0                             |
| Triclopyr                                    | ug/l  | 0.1 | <0.003                        | <0.005 | <0.005 | 8                        | 0             | 0                             |
| Tebuthiuron                                  | ug/l  | 0.1 | <0.002                        | <0.002 | <0.002 | 8                        | 0             | 0                             |
| Ametryne                                     | ug/l  | 0.1 | <0.002                        | <0.002 | <0.002 | 8                        | 0             | 0                             |
| Carbendazim                                  | ug/l  | 0.1 | <0.002                        | <0.002 | <0.002 | 8                        | 0             | 0                             |
| Metaldehyde                                  | ug/l  | 0.1 | <0.005                        | <0.006 | <0.006 | 8                        | 0             | 0                             |
| Total Pesticides                             | ug/l  | 0.5 | 0                             | 0      | 0      | 8                        | 0             | 0                             |

NOTE: PCV = Prescribed Concentration or Value

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

|  |     |                |                    |       |
|--|-----|----------------|--------------------|-------|
| <b>Water Supply Zone:</b>                    | R46 | THATCHAM SOUTH | <b>Zone No.:</b>   | 312   |
|  |     |                | <b>Population:</b> | 24576 |
| <b>Time Period:</b> 01/01/2014 to 31/12/2014 |     |                |                    |       |
| <b>Date extracted:</b> 10/04/2015            |     |                |                    |       |

**Commentary on Water Quality:**

Very good water quality, however one infringement to report for manganese and one infringement to report for odour. Our investigations showed the infringement for manganese was transitory and the infringement for odour was due to a customer side issue. Neither of these infringements were indicative of the quality of water supplied to this zone.

**NOTES:**

For some parameters, monitoring occurs at the supplying Water Treatment Works rather than the Water Supply Zone