

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

| <b>Water Supply Zone:</b> SLE10 EYNSFORD     |              |            | <b>Zone No.:</b> 68           |             |             | <b>Population:</b> 11151 |                           |  |
|--|--------------|------------|-------------------------------|-------------|-------------|--------------------------|---------------------------|--|
| <b>Time Period:</b> 01/01/2014 to 31/12/2014 |              |            | <b>Concentration or Value</b> |             |             | <b>No. of Samples</b>    |                           | <b>% of samples<br/>contravening<br/>PCV</b> |
| <b>Date extracted:</b> 10/04/2015            |              |            | <b>(all samples)</b>          |             |             | <b>Total</b>             | <b>Contra-<br/>vening</b> |  |
| <b>Parameter</b>                             | <b>Units</b> | <b>PCV</b> | <b>Min.</b>                   | <b>Mean</b> | <b>Max.</b> | <b>Total</b>             | <b>Contra-<br/>vening</b> | <b>% of samples<br/>contravening<br/>PCV</b> |
| Coliform bacteria                            | no./100ml    | 0          | 0                             | 0           | 0           | 36                       | 0                         | 0  |
| <i>E. coli</i>                               | no./100ml    | 0          | 0                             | 0           | 0           | 36                       | 0                         | 0  |
| <i>Enterococci</i>                           | no./100ml    | 0          | 0                             | 0           | 0           | 8                        | 0                         | 0  |
| <i>Clostridium perfringens</i>               | no./100ml    | 0          | 0                             | 0           | 0           | 16                       | 0                         | 0  |
| Colony count 22°C                            | cfu/ml       | -          | 0                             | 0           | 0           | 24                       | 0                         | 0  |
| Colony count 37°C                            | cfu/ml       | -          | 0                             | 0           | 0           | 24                       | 0                         | 0  |
| Residual Disinfectant                        | mg/l         | -          | 0.16                          | 0.324       | 0.46        | 36                       | 0                         | 0  |
| Colour (Pt/Co scale)                         | mg/lPt/Co    | 20         | <0.400                        | <0.783      | <0.800      | 24                       | 0                         | 0  |
| Hydrogen Ion                                 | pH           | 6.50-9.50  | 7.2                           | 7.26        | 7.5         | 25                       | 0                         | 0  |
| Turbidity                                    | FTU          | 4          | <0.060                        | 0.075       | 0.15        | 26                       | 0                         | 0  |
| Conductivity at 20°C                         | uS/cm        | 2500       | 507                           | 533         | 630         | 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        | 21.8                          | 24.993      | 34.41       | 8                        | 0                         | 0  |
| Sodium as Na                                 | mg/l         | 200        | 9.3                           | 11.075      | 18.5        | 8                        | 0                         | 0  |
| Sulphate as SO4                              | mg/l         | 250        | 17.1                          | 20.875      | 31.8        | 8                        | 0                         | 0  |
| Nitrate as NO3                               | mg/l         | 50         | 22.4                          | 24.45       | 26.4        | 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          | 0.45                          | 0.49        | 0.53        | 8                        | 0                         | 0  |
| Total Organic Carbon as C                    | mg/l         | -          | 0.3                           | 0.463       | 0.9         | 8                        | 0                         | 0  |
| Total Hardness as CaCO3                      | mg/l         | N/A        | 288                           | 289         | 289         | 2                        | 0                         | 0  |
| Odour (quantatative)                         | dilution no. | 0          | 0                             | 0           | 0           | 12                       | 0                         | 0  |
| Taste (quantatative)                         | dilution no. | 0          | 0                             | 0           | 0           | 12                       | 0                         | 0  |
| Iron as Fe                                   | ug/l         | 200        | <2.000                        | 12.608      | 126.7       | 12                       | 0                         | 0  |
| Manganese as Mn                              | ug/l         | 50         | <0.800                        | <0.800      | <0.800      | 8                        | 0                         | 0  |
| Aluminium as Al                              | ug/l         | 200        | <1.400                        | 2.313       | 5.1         | 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                        | <0.300      | <0.300      | 8                        | 0                         | 0  |
| Cadmium as Cd                                | ug/l         | 5          | <0.100                        | <0.100      | <0.100      | 8                        | 0                         | 0  |
| Chromium as Cr                               | ug/l         | 50         | <0.900                        | 1           | 1.6         | 8                        | 0                         | 0  |
| Copper as Cu                                 | mg/l         | 2          | <0.004                        | 0.03        | 0.051       | 8                        | 0                         | 0  |
| Lead as Pb                                   | ug/l         | 10         | <0.200                        | 0.413       | 0.7         | 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                        | <1.300      | <1.300      | 8                        | 0                         | 0  |
| Fluoride as F                                | mg/l         | 1.5        | 0.075                         | 0.111       | 0.175       | 8                        | 0                         | 0  |
| Selenium as Se                               | ug/l         | 10         | <0.800                        | 0.85        | 1.2         | 8                        | 0                         | 0  |
| Boron as B                                   | mg/l         | 1          | 0.013                         | 0.02        | 0.037       | 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           | 0           | 8                        | 0                         | 0  |
| Benzo (a) pyrene                             | ug/l         | 0.01       | <0.001                        | <0.001      | <0.001      | 8                        | 0                         | 0  |
| Trihalomethanes                              | ug/l         | 100        | 1.7                           | 2.838       | 5.4         | 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                        | <0.238      | <0.300      | 8                        | 0                         | 0  |

NOTE: PCV = Prescribed Concentration or Value

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|--|-------|-----|-------------------------------|--------|--------|-----------------------|---------------|-------------------------------|
|  |       |     | <b>Population:</b> 11151      |        |        |                       |               |                               |
| <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 | 0.011                         | 0.011  | 0.012  | 8                     | 0             | 0                             |
| Bentazone                                    | ug/l  | 0.1 | <0.005                        | <0.005 | <0.005 | 9                     | 0             | 0                             |
| Bromoxynil                                   | ug/l  | 0.1 | <0.002                        | <0.005 | <0.005 | 9                     | 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 | 9                     | 0             | 0                             |
| 2,4-D  | ug/l  | 0.1 | <0.003                        | <0.004 | <0.004 | 9                     | 0             | 0                             |
| Dicamba                                      | ug/l  | 0.1 | <0.007                        | <0.007 | <0.007 | 9                     | 0             | 0                             |
| Dichlorprop                                  | ug/l  | 0.1 | <0.002                        | <0.004 | <0.006 | 9                     | 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 | 9                     | 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 | 9                     | 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 | 9                     | 0             | 0                             |
| MCPA   | ug/l  | 0.1 | <0.002                        | <0.005 | <0.006 | 9                     | 0             | 0                             |
| MCPB   | ug/l  | 0.1 | <0.004                        | <0.005 | <0.008 | 9                     | 0             | 0                             |
| Pentachlorophenol                            | ug/l  | 0.1 | <0.002                        | <0.004 | <0.004 | 9                     | 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 | 9                     | 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 | 9                     | 0             | 0                             |
| Fenoprop                                     | ug/l  | 0.1 | <0.003                        | <0.004 | <0.004 | 9                     | 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 | 9                     | 0             | 0                             |
| Triclopyr                                    | ug/l  | 0.1 | <0.003                        | <0.005 | <0.005 | 9                     | 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                             | 0.008  | 0.012  | 11                    | 0             | 0                             |

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|  |       |          |                    |       |
|--|-------|----------|--------------------|-------|
| <b>Water Supply Zone:</b>                    | SLE10 | EYNSFORD | <b>Zone No.:</b>   | 68    |
|  |       |          | <b>Population:</b> | 11151 |
| <b>Time Period:</b> 01/01/2014 to 31/12/2014 |       |          |                    |       |
| <b>Date extracted:</b> 10/04/2015            |       |          |                    |       |

**Commentary on Water Quality:**

Excellent quality water with no infringements to report for the Water Supply Zone.

**NOTES:**

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