

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

| Water Supply Zone: SLW23 NORTH CROYDON | | | Zone No.: 115 | | | Population: 31878 | | |
|---|--------------|-----------|-------------------------------|---------|--------|--------------------------|----------------------|--------------------------------------|
| Time Period: 01/01/2014 to 31/12/2014 | | | Concentration or Value | | | No. of Samples | | % of samples contravening PCV |
| Date extracted: 10/04/2015 | | | (all samples) | | | Total | Contra-vening | |
| Parameter | Units | PCV | Min. | Mean | Max. | Total | Contra-vening | |
| Coliform bacteria | no./100ml | 0 | 0 | 0 | 0 | 84 | 0 | 0 |
| <i>E. coli</i> | no./100ml | 0 | 0 | 0 | 0 | 84 | 0 | 0 |
| <i>Enterococci</i> | no./100ml | 0 | 0 | 0 | 0 | 8 | 0 | 0 |
| <i>Clostridium perfringens</i> | no./100ml | 0 | 0 | 0 | 0 | 1393 | 0 | 0 |
| Colony count 22°C | cfu/ml | - | 0 | 1.528 | 15 | 36 | 0 | 0 |
| Colony count 37°C | cfu/ml | - | 0 | 1.361 | 8 | 36 | 0 | 0 |
| Residual Disinfectant | mg/l | - | 0.18 | 0.532 | 0.69 | 84 | 0 | 0 |
| Colour (Pt/Co scale) | mg/lPt/Co | 20 | <0.800 | 1.356 | 3.8 | 36 | 0 | 0 |
| Hydrogen Ion | pH | 6.50-9.50 | 7.6 | 7.731 | 8 | 36 | 0 | 0 |
| Turbidity | FTU | 4 | <0.060 | 0.076 | 0.14 | 36 | 0 | 0 |
| Conductivity at 20°C | uS/cm | 2500 | 527 | 562.389 | 603 | 36 | 0 | 0 |
| Ammonium as NH4 | mg/l | 0.5 | 0.08 | 0.13 | 0.17 | 36 | 0 | 0 |
| Chloride as Cl | mg/l | 250 | 32.67 | 39.214 | 45.2 | 8 | 0 | 0 |
| Sodium as Na | mg/l | 200 | 22 | 40.8 | 138.1 | 8 | 0 | 0 |
| Sulphate as SO4 | mg/l | 250 | 42 | 43.95 | 47.6 | 8 | 0 | 0 |
| Nitrate as NO3 | mg/l | 50 | 21.8 | 23.897 | 27.3 | 36 | 0 | 0 |
| Nitrite as NO2 | mg/l | 0.5 | <0.010 | 0.022 | 0.08 | 36 | 0 | 0 |
| Nitrate/Nitrite calculation | mg/l | 1 | 0.45 | 0.484 | 0.56 | 36 | 0 | 0 |
| Total Organic Carbon as C | mg/l | - | 1.4 | 2.206 | 3.8 | 106 | 0 | 0 |
| Total Hardness as CaCO3 | mg/l | N/A | 244 | 245 | 246 | 2 | 0 | 0 |
| Odour (quantatative) | dilution no. | 0 | 0 | 0 | 0 | 18 | 0 | 0 |
| Taste (quantatative) | dilution no. | 0 | 0 | 0 | 0 | 18 | 0 | 0 |
| Iron as Fe | ug/l | 200 | <2.000 | 3.056 | 8.2 | 36 | 0 | 0 |
| Manganese as Mn | ug/l | 50 | <0.200 | <0.767 | <0.800 | 36 | 0 | 0 |
| Aluminium as Al | ug/l | 200 | <1.400 | 5.847 | 8.8 | 36 | 0 | 0 |
| Antimony as Sb | ug/l | 5 | <0.800 | <0.800 | <0.800 | 8 | 0 | 0 |
| Arsenic as As | ug/l | 10 | 0.8 | 1.025 | 1.3 | 8 | 0 | 0 |
| Cadmium as Cd | ug/l | 5 | <0.100 | <0.113 | <0.200 | 8 | 0 | 0 |
| Chromium as Cr | ug/l | 50 | <0.900 | <0.938 | <1.200 | 8 | 0 | 0 |
| Copper as Cu | mg/l | 2 | 0.004 | 0.032 | 0.118 | 8 | 0 | 0 |
| Lead as Pb | ug/l | 10 | <0.200 | 0.375 | 0.9 | 8 | 0 | 0 |
| Mercury as Hg | ug/l | 1 | <0.040 | <0.088 | <0.120 | 106 | 0 | 0 |
| Nickel as Ni | ug/l | 20 | <1.300 | 1.4 | 1.8 | 8 | 0 | 0 |
| Fluoride as F | mg/l | 1.5 | 0.125 | 0.143 | 0.164 | 8 | 0 | 0 |
| Selenium as Se | ug/l | 10 | <0.800 | 0.85 | 1.1 | 8 | 0 | 0 |
| Boron as B | mg/l | 1 | 0.045 | 0.053 | 0.057 | 8 | 0 | 0 |
| Bromate as BrO3 | ug/l | 10 | <0.700 | 1.079 | 14.5 | 107 | 1 | 0.9 |
| Cyanide as CN | ug/l | 50 | <0.700 | 0.715 | 1.1 | 106 | 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 | 16.6 | 18.2 | 19.6 | 10 | 0 | 0 |
| Tetra- & Trichloroethene calc | ug/l | 10 | 0 | 0 | 0 | 9 | 0 | 0 |
| Tetrachloromethane | ug/l | 3 | <0.200 | <0.200 | <0.200 | 9 | 0 | 0 |
| 1,2 dichloroethane | ug/l | 3 | <0.200 | <0.264 | <0.300 | 11 | 0 | 0 |

NOTE: PCV = Prescribed Concentration or Value

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|---|-------|-----|--|--------|--------|--------------------------|---------------|-------------------------------|
| Time Period: 01/01/2014 to 31/12/2014 | | | Concentration or Value (all samples) | | | No. of Samples | | |
| Date extracted: 10/04/2015 | | | | | | | | |
| Parameter | Units | PCV | Min. | Mean | Max. | Total | Contra-vening | % of samples contravening PCV |
| Benzene | ug/l | 1 | <0.100 | <0.100 | <0.100 | 11 | 0 | 0 |
| Atrazine | ug/l | 0.1 | <0.005 | <0.005 | <0.005 | 107 | 0 | 0 |
| Bentazone | ug/l | 0.1 | <0.005 | 0.005 | 0.007 | 107 | 0 | 0 |
| Bromoxynil | ug/l | 0.1 | <0.002 | <0.005 | <0.005 | 107 | 0 | 0 |
| Carbetamide | ug/l | 0.1 | <0.003 | 0.003 | 0.008 | 107 | 0 | 0 |
| Chlortoluron | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 107 | 0 | 0 |
| Clopyralid | ug/l | 0.1 | <0.009 | <0.010 | <0.010 | 107 | 0 | 0 |
| 2,4-D | ug/l | 0.1 | <0.003 | <0.004 | <0.004 | 107 | 0 | 0 |
| Dicamba | ug/l | 0.1 | <0.007 | <0.007 | <0.007 | 107 | 0 | 0 |
| Dichlorprop | ug/l | 0.1 | <0.002 | <0.004 | <0.006 | 107 | 0 | 0 |
| Diuron | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 107 | 0 | 0 |
| Fluroxypyr | ug/l | 0.1 | <0.003 | <0.006 | <0.006 | 107 | 0 | 0 |
| Isoproturon | ug/l | 0.1 | <0.004 | <0.004 | <0.004 | 107 | 0 | 0 |
| Ioxynil | ug/l | 0.1 | <0.002 | <0.005 | <0.005 | 107 | 0 | 0 |
| Linuron | ug/l | 0.1 | <0.004 | <0.004 | <0.004 | 107 | 0 | 0 |
| Mecoprop | ug/l | 0.1 | <0.003 | <0.007 | <0.008 | 107 | 0 | 0 |
| MCPA | ug/l | 0.1 | <0.002 | <0.006 | <0.006 | 107 | 0 | 0 |
| MCPB | ug/l | 0.1 | <0.004 | <0.005 | <0.008 | 107 | 0 | 0 |
| Pentachlorophenol | ug/l | 0.1 | <0.002 | <0.004 | <0.004 | 107 | 0 | 0 |
| Propazine | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 106 | 0 | 0 |
| Prometryn | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 106 | 0 | 0 |
| Propyzamide | ug/l | 0.1 | <0.004 | 0.007 | 0.033 | 107 | 0 | 0 |
| Simazine | ug/l | 0.1 | <0.005 | <0.005 | <0.005 | 107 | 0 | 0 |
| 2,4,5-T | ug/l | 0.1 | <0.003 | <0.005 | <0.005 | 107 | 0 | 0 |
| Terbutryn | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 106 | 0 | 0 |
| 2,4-DB | ug/l | 0.1 | <0.004 | <0.005 | <0.005 | 107 | 0 | 0 |
| Fenoprop | ug/l | 0.1 | <0.003 | <0.004 | <0.004 | 107 | 0 | 0 |
| Monuron | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 107 | 0 | 0 |
| Picloram | ug/l | 0.1 | <0.005 | 0.008 | 0.01 | 107 | 0 | 0 |
| Triclopyr | ug/l | 0.1 | <0.003 | <0.005 | <0.005 | 107 | 0 | 0 |
| Tebuthiuron | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 106 | 0 | 0 |
| Ametryne | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 106 | 0 | 0 |
| Carbendazim | ug/l | 0.1 | <0.002 | 0.002 | 0.008 | 107 | 0 | 0 |
| Metaldehyde | ug/l | 0.1 | 0.018 | 0.039 | 0.083 | 106 | 0 | 0 |
| Metazachlor | ug/l | 0.1 | <0.002 | 0.003 | 0.008 | 106 | 0 | 0 |
| Quinmerac | ug/l | 0.1 | <0.004 | 0.006 | 0.017 | 107 | 0 | 0 |
| Total Pesticides | ug/l | 0.5 | 0 | 0.048 | 0.134 | 114 | 0 | 0 |

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|--|-------|---------------|--------------------------|
| Water Supply Zone: | SLW23 | NORTH CROYDON | Zone No.: 115 |
| | | | Population: 31878 |
| Time Period: 01/01/2014 to 31/12/2014 | | | |
| Date extracted: 10/04/2015 | | | |

Commentary on Water Quality:

Very good water quality, however one infringement to report for bromate. Our investigations showed the infringement for bromate was transitory at a supplying asset and is not 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