

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

| Water Supply Zone: NLW23 SHEPHERDS BUSH | | | Zone No.: 48 | | | Population: 40008 | | |
|--|--------------|------------|-------------------------------|-------------|-------------|--------------------------|---------------------------|--|
| 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 | 108 | 0 | 0 |
| <i>E. coli</i> | no./100ml | 0 | 0 | 0 | 0 | 108 | 0 | 0 |
| <i>Enterococci</i> | no./100ml | 0 | 0 | 0 | 0 | 8 | 0 | 0 |
| <i>Clostridium perfringens</i> | no./100ml | 0 | 0 | 0 | 0 | 401 | 0 | 0 |
| Colony count 22°C | cfu/ml | - | 0 | 6.556 | 180 | 36 | 0 | 0 |
| Colony count 37°C | cfu/ml | - | 0 | 5.703 | 167 | 37 | 0 | 0 |
| Residual Disinfectant | mg/l | - | 0.14 | 0.458 | 0.74 | 108 | 0 | 0 |
| Colour (Pt/Co scale) | mg/lPt/Co | 20 | <0.800 | 1.647 | 5.1 | 36 | 0 | 0 |
| Hydrogen Ion | pH | 6.50-9.50 | 7.5 | 7.739 | 8.2 | 36 | 0 | 0 |
| Turbidity | FTU | 4 | <0.060 | 0.077 | 0.13 | 36 | 0 | 0 |
| Conductivity at 20°C | uS/cm | 2500 | 502 | 552.528 | 606 | 36 | 0 | 0 |
| Ammonium as NH4 | mg/l | 0.5 | 0.04 | 0.112 | 0.2 | 36 | 0 | 0 |
| Chloride as Cl | mg/l | 250 | 33.62 | 39.075 | 45.04 | 8 | 0 | 0 |
| Sodium as Na | mg/l | 200 | 21.4 | 26.2 | 30.1 | 8 | 0 | 0 |
| Sulphate as SO4 | mg/l | 250 | 41.6 | 43.713 | 48.4 | 8 | 0 | 0 |
| Nitrate as NO3 | mg/l | 50 | 20.2 | 23.803 | 28.1 | 36 | 0 | 0 |
| Nitrite as NO2 | mg/l | 0.5 | 0.01 | 0.044 | 0.12 | 36 | 0 | 0 |
| Nitrate/Nitrite calculation | mg/l | 1 | 0.41 | 0.489 | 0.58 | 36 | 0 | 0 |
| Total Organic Carbon as C | mg/l | - | 1.5 | 2.297 | 3.7 | 36 | 0 | 0 |
| Total Hardness as CaCO3 | mg/l | N/A | 244 | 256 | 268 | 2 | 0 | 0 |
| Odour (quantatative) | dilution no. | 0 | 0 | 0 | 0 | 19 | 0 | 0 |
| Taste (quantatative) | dilution no. | 0 | 0 | 0 | 0 | 19 | 0 | 0 |
| Iron as Fe | ug/l | 200 | <2.000 | 3.542 | 10.3 | 36 | 0 | 0 |
| Manganese as Mn | ug/l | 50 | <0.200 | <0.753 | <0.800 | 36 | 0 | 0 |
| Aluminium as Al | ug/l | 200 | <1.400 | 6.017 | 14.8 | 36 | 0 | 0 |
| Antimony as Sb | ug/l | 5 | <0.700 | <0.788 | <0.800 | 8 | 0 | 0 |
| Arsenic as As | ug/l | 10 | 0.8 | 1.013 | 1.2 | 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 | <0.938 | <1.200 | 8 | 0 | 0 |
| Copper as Cu | mg/l | 2 | 0.006 | 0.034 | 0.099 | 8 | 0 | 0 |
| Lead as Pb | ug/l | 10 | 0.2 | 1.475 | 2.9 | 8 | 0 | 0 |
| Mercury as Hg | ug/l | 1 | <0.040 | <0.088 | <0.120 | 36 | 0 | 0 |
| Nickel as Ni | ug/l | 20 | <1.300 | <1.350 | <1.600 | 8 | 0 | 0 |
| Fluoride as F | mg/l | 1.5 | 0.105 | 0.149 | 0.192 | 8 | 0 | 0 |
| Selenium as Se | ug/l | 10 | <0.800 | 0.85 | 1.2 | 8 | 0 | 0 |
| Boron as B | mg/l | 1 | 0.046 | 0.052 | 0.056 | 8 | 0 | 0 |
| Bromate as BrO3 | ug/l | 10 | <0.700 | 0.833 | 1.8 | 36 | 0 | 0 |
| Cyanide as CN | ug/l | 50 | <0.700 | 0.711 | 1 | 36 | 0 | 0 |
| PAHs (Sum of 4 substances) | ug/l | 0.1 | 0 | 0 | 0.001 | 8 | 0 | 0 |
| Benzo (a) pyrene | ug/l | 0.01 | <0.001 | <0.001 | <0.001 | 8 | 0 | 0 |
| Trihalomethanes | ug/l | 100 | 13.7 | 18.913 | 24.8 | 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

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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 | 8 | 0 | 0 |
| Atrazine | ug/l | 0.1 | <0.005 | <0.005 | <0.005 | 36 | 0 | 0 |
| Bentazone | ug/l | 0.1 | <0.005 | <0.005 | <0.005 | 36 | 0 | 0 |
| Bromoxynil | ug/l | 0.1 | <0.002 | <0.005 | <0.005 | 36 | 0 | 0 |
| Carbetamide | ug/l | 0.1 | <0.003 | 0.003 | 0.006 | 36 | 0 | 0 |
| Chlortoluron | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 36 | 0 | 0 |
| Clopyralid | ug/l | 0.1 | <0.009 | <0.010 | <0.010 | 36 | 0 | 0 |
| 2,4-D | ug/l | 0.1 | <0.003 | <0.004 | <0.004 | 36 | 0 | 0 |
| Dicamba | ug/l | 0.1 | <0.007 | <0.007 | <0.007 | 36 | 0 | 0 |
| Dichlorprop | ug/l | 0.1 | <0.002 | <0.004 | <0.004 | 36 | 0 | 0 |
| Diuron | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 36 | 0 | 0 |
| Fluroxypyr | ug/l | 0.1 | <0.003 | <0.006 | <0.006 | 36 | 0 | 0 |
| Isoproturon | ug/l | 0.1 | <0.004 | <0.004 | <0.004 | 36 | 0 | 0 |
| Ioxynil | ug/l | 0.1 | <0.002 | <0.005 | <0.005 | 36 | 0 | 0 |
| Linuron | ug/l | 0.1 | <0.004 | <0.004 | <0.004 | 36 | 0 | 0 |
| Mecoprop | ug/l | 0.1 | <0.003 | <0.007 | <0.008 | 36 | 0 | 0 |
| MCPA | ug/l | 0.1 | <0.002 | <0.006 | <0.006 | 36 | 0 | 0 |
| MCPB | ug/l | 0.1 | <0.004 | <0.005 | <0.008 | 36 | 0 | 0 |
| Pentachlorophenol | ug/l | 0.1 | <0.002 | <0.004 | <0.004 | 36 | 0 | 0 |
| Propazine | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 36 | 0 | 0 |
| Prometryn | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 36 | 0 | 0 |
| Propyzamide | ug/l | 0.1 | 0.004 | 0.009 | 0.033 | 36 | 0 | 0 |
| Simazine | ug/l | 0.1 | <0.005 | <0.005 | <0.005 | 36 | 0 | 0 |
| 2,4,5-T | ug/l | 0.1 | <0.003 | <0.005 | <0.005 | 36 | 0 | 0 |
| Terbutryn | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 36 | 0 | 0 |
| 2,4-DB | ug/l | 0.1 | <0.004 | <0.005 | <0.005 | 36 | 0 | 0 |
| Fenoprop | ug/l | 0.1 | <0.003 | <0.004 | <0.004 | 36 | 0 | 0 |
| Monuron | ug/l | 0.1 | <0.003 | <0.003 | <0.003 | 36 | 0 | 0 |
| Picloram | ug/l | 0.1 | <0.005 | <0.008 | <0.008 | 36 | 0 | 0 |
| Triclopyr | ug/l | 0.1 | <0.003 | <0.005 | <0.005 | 36 | 0 | 0 |
| Tebuthiuron | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 36 | 0 | 0 |
| Ametryne | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 36 | 0 | 0 |
| Carbendazim | ug/l | 0.1 | <0.002 | <0.002 | <0.002 | 36 | 0 | 0 |
| Metaldehyde | ug/l | 0.1 | 0.02 | 0.036 | 0.07 | 36 | 0 | 0 |
| Metazachlor | ug/l | 0.1 | <0.002 | 0.002 | 0.003 | 36 | 0 | 0 |
| Quinmerac | ug/l | 0.1 | 0.004 | 0.005 | 0.009 | 36 | 0 | 0 |
| Total Pesticides | ug/l | 0.5 | 0 | 0.044 | 0.099 | 38 | 0 | 0 |

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| | | | | |
|--|-------|----------------|--------------------|-------|
| Water Supply Zone: | NLW23 | SHEPHERDS BUSH | Zone No.: | 48 |
| | | | Population: | 40008 |
| Time Period: 01/01/2014 to 31/12/2014 | | | | |
| Date extracted: 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