

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

<b>Water Supply Zone:</b> LV24 ENFIELD TOWN			<b>Zone No.:</b> 340			<b>Population:</b> 33473		
<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b>			<b>No. of Samples</b>		<b>% of samples contravening PCV</b>
<b>Date extracted:</b> 10/04/2015			<b>(all samples)</b>			<b>Total</b>	<b>Contra-vening</b>	
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
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	1579	0	0
Colony count 22°C	cfu/ml	-	0	2.639	42	36	0	0
Colony count 37°C	cfu/ml	-	0	1.972	18	36	0	0
Residual Disinfectant	mg/l	-	0.28	0.608	0.81	84	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.067	4.2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7	7.467	7.8	36	0	0
Turbidity	FTU	4	<0.060	0.069	0.09	36	0	0
Conductivity at 20°C	uS/cm	2500	562	616.222	651	36	0	0
Ammonium as NH4	mg/l	0.5	0.07	0.168	0.22	36	0	0
Chloride as Cl	mg/l	250	45.43	52.613	58.13	8	0	0
Sodium as Na	mg/l	200	29.7	32.875	36.7	8	0	0
Sulphate as SO4	mg/l	250	51.9	69.438	83.9	8	0	0
Nitrate as NO3	mg/l	50	8.2	23.119	31.9	36	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.014	0.06	36	0	0
Nitrate/Nitrite calculation	mg/l	1	0.17	0.466	0.66	36	0	0
Total Organic Carbon as C	mg/l	-	0.8	2.134	3.7	139	0	0
Total Hardness as CaCO3	mg/l	N/A	259	272	284	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	1.8	2.294	6.1	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	7.197	18	36	0	0
Antimony as Sb	ug/l	5	<0.800	<0.800	<0.800	8	0	0
Arsenic as As	ug/l	10	0.7	0.938	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	0.913	1	8	0	0
Copper as Cu	mg/l	2	<0.004	0.012	0.035	8	0	0
Lead as Pb	ug/l	10	<0.200	2.675	15.4	8	1	12.5
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	138	0	0
Nickel as Ni	ug/l	20	<1.300	1.663	2.6	8	0	0
Fluoride as F	mg/l	1.5	0.121	0.151	0.171	8	0	0
Selenium as Se	ug/l	10	0.8	0.988	1.3	8	0	0
Boron as B	mg/l	1	0.065	0.075	0.084	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.048	3.4	145	0	0
Cyanide as CN	ug/l	50	<0.700	0.709	1.1	139	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0.002	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	7	12.089	19.4	9	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	<0.250	<0.300	8	0	0

NOTE: PCV = Prescribed Concentration or Value

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<b>Date extracted:</b> 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	0.01	140	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	138	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	138	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	140	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	140	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	138	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	138	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	138	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	138	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	140	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	138	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	140	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	138	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	140	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	138	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	138	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	138	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	138	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	138	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	138	0	0
Propyzamide	ug/l	0.1	0.004	0.007	0.033	140	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	140	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	138	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	138	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	138	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	138	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	140	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	138	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	138	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	138	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	138	0	0
Carbendazim	ug/l	0.1	<0.002	0.004	0.259	140	1	0.7
Metaldehyde	ug/l	0.1	0.018	0.044	0.138	139	6	4.3
Metazachlor	ug/l	0.1	0.002	0.003	0.015	139	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.021	140	0	0
Total Pesticides	ug/l	0.5	0	0.058	0.354	145	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	6	0	0
Gross beta activity	Bq/l	1	0.14	0.152	0.17	6	0	0

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<b>Date extracted:</b> 10/04/2015			

**Commentary on Water Quality:**

Very good water quality, however six infringements to report for metaldehyde\*, one infringement to report for carbendazim and one infringement to report for lead. Our investigations showed the infringements for metaldehyde and carbendazim were transitory at our supplying assets, and the infringement for lead was transitory. None 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

\* Metaldehyde is used by farmers to protect crops from slugs and snails. It can enter watercourses through 'run-off' from fields when rainfall occurs after slug pellets have been applied to agricultural land in the autumn.

Unlike other pesticides, metaldehyde is not easily removed from surface water by conventional treatment process, and as a result has been identified at levels which exceed the regulatory limit in treated water. These concentrations detected are well below levels that pose a risk to health.

Metaldehyde in treated water is an industry-wide issue which we are collectively working with our regulator, the Drinking Water Inspectorate, and users of metaldehyde in order to reduce the amount in water that is being treated.