

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

Water Supply Zone: LV22 SOUTHGATE			Zone No.: 338					
			Population: 35313					
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)					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra- vening	
Coliform bacteria	no./100ml	0	0	0	0	96	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	96	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	1515	0	0
Colony count 22°C	cfu/ml	-	0	2.568	45	37	0	0
Colony count 37°C	cfu/ml	-	0	2.892	52	37	0	0
Residual Disinfectant	mg/l	-	0.15	0.476	0.7	96	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.256	4.2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.683	7.9	36	0	0
Turbidity	FTU	4	<0.060	0.085	0.19	36	0	0
Conductivity at 20°C	uS/cm	2500	522	586.278	626	36	0	0
Ammonium as NH4	mg/l	0.5	<0.030	0.112	0.17	36	0	0
Chloride as Cl	mg/l	250	36.61	45.214	52.07	8	0	0
Sodium as Na	mg/l	200	24.7	29.638	31.8	8	0	0
Sulphate as SO4	mg/l	250	43.3	47.4	51.7	8	0	0
Nitrate as NO3	mg/l	50	19.7	24.361	31.6	36	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.097	0.17	36	0	0
Nitrate/Nitrite calculation	mg/l	1	0.42	0.519	0.63	36	0	0
Total Organic Carbon as C	mg/l	-	0.8	2.15	3.7	133	0	0
Total Hardness as CaCO3	mg/l	N/A	259	267	275	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	2.256	4.4	36	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	36	0	0
Aluminium as Al	ug/l	200	<1.400	5.814	9.5	36	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.9	1.1	1.4	8	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.100	<0.100	8	0	0
Chromium as Cr	ug/l	50	<0.900	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	<0.004	0.02	0.072	8	0	0
Lead as Pb	ug/l	10	0.5	1.725	3.3	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	133	0	0
Nickel as Ni	ug/l	20	<1.300	1.4	1.6	8	0	0
Fluoride as F	mg/l	1.5	0.112	0.156	0.189	8	0	0
Selenium as Se	ug/l	10	0.8	0.838	0.9	8	0	0
Boron as B	mg/l	1	0.047	0.062	0.07	8	0	0
Bromate as BrO3	ug/l	10	<0.700	0.924	2	140	0	0
Cyanide as CN	ug/l	50	<0.700	0.71	1.1	133	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	14.6	18.911	23.4	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	9	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.267	<0.300	9	0	0

NOTE: PCV = Prescribed Concentration or Value

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<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b> <b>(all samples)</b>			<b>No. of Samples</b>		
<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	9	0	0
Atrazine	ug/l	0.1	<0.005	0.005	0.01	134	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	133	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	133	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	134	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	134	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	133	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	133	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	133	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	133	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	134	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	133	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	134	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	133	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	134	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	133	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	133	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	133	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	133	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	133	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	133	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	134	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	134	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	133	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	133	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	133	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	133	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	134	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	133	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	133	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	133	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	133	0	0
Carbendazim	ug/l	0.1	<0.002	0.004	0.259	134	1	0.7
Metaldehyde	ug/l	0.1	0.018	0.043	0.138	133	6	4.5
Metazachlor	ug/l	0.1	<0.002	0.003	0.015	133	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.021	134	0	0
Total Pesticides	ug/l	0.5	0	0.058	0.354	138	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	1	0	0
Gross beta activity	Bq/l	1	0.15	0.15	0.15	1	0	0

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<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 six infringements to report for metaldehyde\* and one infringement to report for carbendazim. Our investigations showed the infringements for metaldehyde and carbendazim were transitory at our supplying assets and 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

\* 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.