

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: LV21 BUSH HILL			Zone No.: 337					
			Population: 46964					
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
Coliform bacteria	no./100ml	0	0	0	0	120	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	120	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	1.083	12	36	0	0
Colony count 37°C	cfu/ml	-	0	0.806	5	36	0	0
Residual Disinfectant	mg/l	-	0.15	0.472	0.78	120	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.203	2.7	36	0	0
Hydrogen Ion	pH	6.50-9.50	7	7.565	7.9	37	0	0
Turbidity	FTU	4	<0.060	0.075	0.13	36	0	0
Conductivity at 20°C	uS/cm	2500	537	589.778	649	36	0	0
Ammonium as NH ₄	mg/l	0.5	<0.030	0.105	0.24	36	0	0
Chloride as Cl	mg/l	250	34.86	45.546	58.12	8	0	0
Sodium as Na	mg/l	200	23.5	28.938	35.5	8	0	0
Sulphate as SO ₄	mg/l	250	42.1	55.1	87.8	8	0	0
Nitrate as NO ₃	mg/l	50	13.4	22.703	28.4	36	0	0
Nitrite as NO ₂	mg/l	0.5	<0.010	0.106	0.25	36	0	0
Nitrate/Nitrite calculation	mg/l	1	0.27	0.488	0.59	36	0	0
Total Organic Carbon as C	mg/l	-	0.8	2.134	3.7	139	0	0
Total Hardness as CaCO ₃	mg/l	N/A	260	268	276	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	2.469	6.1	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	5.908	12.6	36	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	0.8	1.075	1.2	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	0.008	0.048	0.093	8	0	0
Lead as Pb	ug/l	10	<0.200	0.513	1.6	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	138	0	0
Nickel as Ni	ug/l	20	<1.300	1.713	2.7	8	0	0
Fluoride as F	mg/l	1.5	0.119	0.144	0.171	8	0	0
Selenium as Se	ug/l	10	<0.800	0.938	1.2	8	0	0
Boron as B	mg/l	1	0.05	0.063	0.08	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	1.003	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	12	16.863	20.1	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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Date extracted: 10/04/2015								
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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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Date extracted: 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.