THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: NLE11 WHITECHAPEL **Zone No.:** 11

Population: 28204

Time Period: 01/01/2014 to 31/12/2014
Date extracted: 10/04/2015

			Concentration or Value (all samples)			No. of Samples		
Parameter	**Units**	**PCV**	**Min.**	**Mean**	**Max.**	**Total**	**Contra-vening**	**% of samples contravening PCV**
Coliform bacteria	no./100ml	0	0	0	0	72	0	0
E. coli	no./100ml	0	0	0	0	72	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	1746	0	0
Colony count 22°C	cfu/ml	-	0	3.25	42	24	0	0
Colony count 37°C	cfu/ml	-	0	4.333	49	24	0	0
Residual Disinfectant	mg/l	-	0.4	0.594	0.78	72	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.258	4.1	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.696	8	24	0	0
Turbidity	FTU	4	0.06	0.079	0.15	24	0	0
Conductivity at 20°C	uS/cm	2500	554	604	631	24	0	0
Ammonium as NH4	mg/l	0.5	0.14	0.182	0.24	24	0	0
Chloride as Cl	mg/l	250	37.61	47.48	54.33	8	0	0
Sodium as Na	mg/l	200	28.9	31.825	34.5	8	0	0
Sulphate as SO4	mg/l	250	42.9	48.8	52.1	8	0	0
Nitrate as NO3	mg/l	50	19.1	25.225	31.3	24	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.021	0.08	24	0	0
Nitrate/Nitrite calculation	mg/l	1	0.38	0.511	0.64	24	0	0
Total Organic Carbon as C	mg/l	-	1.4	2.183	3.8	142	0	0
Total Hardness as CaCO3	mg/l	N/A	253	269	284	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	14	0	0
Taste (quantatative)	dilution no.	0	0	0	0	14	0	0
Iron as Fe	ug/l	200	<2.000	3.113	7.2	24	0	0
Manganese as Mn	ug/l	50	<0.200	<0.775	<0.800	24	0	0
Aluminium as Al	ug/l	200	<1.400	5.758	9.6	24	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	1.088	1.3	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	<0.975	<1.200	8	0	0
Copper as Cu	mg/l	2	0.004	0.02	0.095	8	0	0
Lead as Pb	ug/l	10	<0.200	0.513	1.9	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	142	0	0
Nickel as Ni	ug/l	20	<1.300	1.538	2	8	0	0
Fluoride as F	mg/l	1.5	0.069	0.133	0.175	8	0	0
Selenium as Se	ug/l	10	0.8	0.888	1.2	8	0	0
Boron as B	mg/l	1	0.056	0.066	0.074	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.137	14.5	143	1	0.7
Cyanide as CN	ug/l	50	<0.700	0.712	1.1	142	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	14.4	17.756	22.4	9	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	<0.244	<0.300	9	0	0

NOTE: PCV = Prescribed Concentration or Value

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			Concentration or Value (all samples)			No. of Samples		
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	143	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	143	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	143	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	143	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	143	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	143	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	143	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	143	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	143	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	143	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	143	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	143	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	143	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	143	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	143	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	143	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	143	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	143	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	142	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	142	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	143	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	143	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	143	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	142	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	143	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	143	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	143	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	143	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	143	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	142	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	142	0	0
Carbendazim	ug/l	0.1	<0.002	0.004	0.259	143	1	0.7
Metaldehyde	ug/l	0.1	0.018	0.043	0.138	142	6	4.2
Metazachlor	ug/l	0.1	<0.002	0.003	0.015	142	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.021	143	0	0
Total Pesticides	ug/l	0.5	0	0.056	0.354	150	0	0

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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 bromate. Our investigations showed the infringements for metaldehyde, carbendazim and bromate were transitory at our supplying assets. 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.