THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: NLE32 MANOR PARK **Zone No.:** 371

Population: 47235

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	0.025	3	120	1	0.8
E. coli	no./100ml	0	0	0.025	3	120	1	0.8
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	401	0	0
Colony count 22°C	cfu/ml	-	0	1	11	36	0	0
Colony count 37°C	cfu/ml	-	0	1.444	9	36	0	0
Residual Disinfectant	mg/l	-	0.34	0.641	0.84	120	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.022	2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.638	7.8	37	0	0
Turbidity	FTU	4	<0.060	0.078	0.13	36	0	0
Conductivity at 20°C	uS/cm	2500	590	610.028	639	36	0	0
Ammonium as NH4	mg/l	0.5	0.09	0.19	0.29	37	0	0
Chloride as Cl	mg/l	250	45.27	49.931	55.36	8	0	0
Sodium as Na	mg/l	200	26.5	31.175	36.9	8	0	0
Sulphate as SO4	mg/l	250	46	50.638	55.3	8	0	0
Nitrate as NO3	mg/l	50	17.8	25.978	30.7	37	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.052	0.18	37	0	0
Nitrate/Nitrite calculation	mg/l	1	0.36	0.537	0.62	37	0	0
Total Organic Carbon as C	mg/l	-	1.5	2.117	3.1	36	0	0
Total Hardness as CaCO3	mg/l	N/A	268	269	269	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	23	0	0
Taste (quantatative)	dilution no.	0	0	0	0	23	0	0
Iron as Fe	ug/l	200	1.4	2.45	5	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	5.672	9.3	36	0	0
Antimony as Sb	ug/l	5	0.5	0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	0.8	1.125	1.5	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	0.01	0.05	0.135	8	0	0
Lead as Pb	ug/l	10	0.2	0.9	2.5	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.086	<0.090	36	0	0
Nickel as Ni	ug/l	20	<1.300	1.738	2.4	8	0	0
Fluoride as F	mg/l	1.5	0.139	0.169	0.195	8	0	0
Selenium as Se	ug/l	10	<0.800	0.938	1.2	8	0	0
Boron as B	mg/l	1	0.066	0.071	0.076	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.311	2	36	0	0
Cyanide as CN	ug/l	50	<0.700	0.703	0.8	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	15.6	18.638	22.8	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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			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	8	0	0
Atrazine	ug/l	0.1	<0.005	0.005	0.01	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	0.005	36	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	36	0	0
Clopyralid	ug/l	0.1	<0.009	0.011	0.013	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	0.01	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	0.006	0.011	36	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	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	0.009	0.259	36	1	2.8
Metaldehyde	ug/l	0.1	0.025	0.057	0.138	36	6	16.7
Metazachlor	ug/l	0.1	0.002	0.003	0.015	36	0	0
Quinmerac	ug/l	0.1	0.004	0.007	0.021	36	0	0
Total Pesticides	ug/l	0.5	0.03	0.083	0.354	36	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, one infringement to report for coliforms and one infringement to report for *E. coli* . Our investigations showed the infringements for metaldehyde and carbendazim were transitory at our supplying assets and the infringement for coliforms and *E. coli* were 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.