THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: SLW34 EPSOM NORTH **Zone No.:** 331

Population: 12180

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	36	0	0
E. coli	no./100ml	0	0	0	0	36	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	16	0	0
Colony count 22°C	cfu/ml	-	0	0	0	24	0	0
Colony count 37°C	cfu/ml	-	0	0.292	5	24	0	0
Residual Disinfectant	mg/l	-	0.14	0.286	0.49	36	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.85	2	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.171	7.4	24	0	0
Turbidity	FTU	4	<0.040	0.07	0.12	24	0	0
Conductivity at 20°C	uS/cm	2500	565	603.25	632	24	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	24	0	0
Chloride as Cl	mg/l	250	25.85	27.325	30.26	8	0	0
Sodium as Na	mg/l	200	13.4	15.038	16.7	8	0	0
Sulphate as SO4	mg/l	250	16.6	21.163	25.6	8	0	0
Nitrate as NO3	mg/l	50	25.3	27	29.2	8	0	0
Nitrite as NO2	mg/l	0.5	<0.010	<0.010	<0.010	8	0	0
Nitrate/Nitrite calculation	mg/l	1	0.51	0.54	0.58	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	0.65	0.9	8	0	0
Total Hardness as CaCO3	mg/l	N/A	313	317	320	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	<1.000	<1.917	<2.000	12	0	0
Manganese as Mn	ug/l	50	<0.200	<0.725	<0.800	8	0	0
Aluminium as Al	ug/l	200	<1.400	<2.700	<6.300	8	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	<0.300	<0.300	<0.300	8	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.100	<0.100	8	0	0
Chromium as Cr	ug/l	50	<0.800	0.913	1.1	8	0	0
Copper as Cu	mg/l	2	0.005	0.031	0.112	8	0	0
Lead as Pb	ug/l	10	<0.200	0.263	0.4	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.084	<0.090	8	0	0
Nickel as Ni	ug/l	20	<1.300	<1.338	<1.600	8	0	0
Fluoride as F	mg/l	1.5	0.075	0.109	0.154	8	0	0
Selenium as Se	ug/l	10	0.8	1.063	1.3	8	0	0
Boron as B	mg/l	1	0.027	0.031	0.035	8	0	0
Bromate as BrO3	ug/l	10	<0.700	<0.700	<0.700	8	0	0
Cyanide as CN	ug/l	50	<0.700	0.713	0.8	8	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	3.2	4.25	6.2	8	0	0
Tetra- & Trichloroethene calc	ug/l	10	0.3	0.413	0.6	8	0	0
Tetrachloromethane	ug/l	3	0.5	0.888	1	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	0.021	0.029	0.042	8	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	8	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	8	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	8	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	8	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	8	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	8	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	8	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	8	0	0
Diuron	ug/l	0.1	<0.003	0.004	0.008	8	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	8	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	8	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	8	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	8	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	8	0	0
MCPA	ug/l	0.1	<0.002	<0.005	<0.006	8	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	8	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	8	0	0
Propazine	ug/l	0.1	<0.002	0.003	0.003	8	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	8	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	8	0	0
Simazine	ug/l	0.1	0.007	0.01	0.014	8	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	8	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	8	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	8	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	8	0	0
Monuron	ug/l	0.1	0.006	0.008	0.011	8	0	0
Picloram	ug/l	0.1	<0.008	0.01	0.014	8	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	8	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	8	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	8	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	8	0	0
Metaldehyde	ug/l	0.1	<0.005	0.006	0.009	8	0	0
Total Pesticides	ug/l	0.5	0.034	0.059	0.101	8	0	0

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Commentary on Water Quality:

Excellent quality water with no infringements to report for the Water Supply Zone.

NOTES:

For some parameters, monitoring occurs at the supplying Water Treatment Works rather than the Water Supply Zone

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