

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:		R22	READING EAST			Zone No.: 187		
			Population: 23124					
Time Period: 01/01/2014 to 31/12/2014 Date extracted: 10/04/2015			Concentration or Value (all samples)			No. of Samples		% of samples contravening PCV
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra- vening	
Coliform bacteria	no./100ml	0	0	0	0	60	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	60	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	156	0	0
Colony count 22°C	cfu/ml	-	0	0.083	1	24	0	0
Colony count 37°C	cfu/ml	-	0	0	0	24	0	0
Residual Disinfectant	mg/l	-	0.19	0.448	1	60	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	0.84	2.1	25	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.752	8.1	25	0	0
Turbidity	FTU	4	<0.060	0.069	0.13	25	0	0
Conductivity at 20°C	uS/cm	2500	492	525.16	553	25	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	24	0	0
Chloride as Cl	mg/l	250	31.34	33.415	36.43	8	0	0
Sodium as Na	mg/l	200	12.7	14.038	15.2	8	0	0
Sulphate as SO4	mg/l	250	19.1	21.125	23	8	0	0
Nitrate as NO3	mg/l	50	20.3	23.55	27.7	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	0.41	0.47	0.55	8	0	0
Total Organic Carbon as C	mg/l	-	0.7	1.125	1.5	8	0	0
Total Hardness as CaCO3	mg/l	N/A	245	249	252	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	12	0	0
Taste (quantatative)	dilution no.	0	0	0	0	12	0	0
Iron as Fe	ug/l	200	1.4	2.863	15	24	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	24	0	0
Aluminium as Al	ug/l	200	<1.400	5.321	9.9	24	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	<0.900	1.25	3.4	8	0	0
Copper as Cu	mg/l	2	0.011	0.037	0.147	8	0	0
Lead as Pb	ug/l	10	0.2	0.338	0.6	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.094	<0.120	8	0	0
Nickel as Ni	ug/l	20	<1.300	1.463	1.9	8	0	0
Fluoride as F	mg/l	1.5	0.084	0.106	0.126	8	0	0
Selenium as Se	ug/l	10	<0.800	0.813	0.9	8	0	0
Boron as B	mg/l	1	0.018	0.022	0.025	8	0	0
Bromate as BrO3	ug/l	10	1.4	3.213	4.3	8	0	0
Cyanide as CN	ug/l	50	<0.700	0.788	1.1	8	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0.001	0.004	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	6.7	12.4	17	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			(all 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	<0.005	8	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	8	0	0
Bromoxynil	ug/l	0.1	<0.005	<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	<0.010	<0.010	<0.010	8	0	0
2,4-D	ug/l	0.1	<0.004	<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	<0.004	<0.004	<0.004	8	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	8	0	0
Fluroxypyr	ug/l	0.1	<0.004	<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	<0.004	<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	<0.008	<0.008	<0.008	8	0	0
MCPA	ug/l	0.1	<0.006	<0.006	<0.006	8	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	8	0	0
Pentachlorophenol	ug/l	0.1	<0.004	<0.004	<0.004	8	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	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	<0.005	<0.005	<0.005	8	0	0
2,4,5-T	ug/l	0.1	<0.005	<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	<0.004	<0.004	<0.004	8	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	8	0	0
Picloram	ug/l	0.1	<0.008	<0.008	<0.008	8	0	0
Triclopyr	ug/l	0.1	<0.005	<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	0.006	0.01	0.023	8	0	0
Total Pesticides	ug/l	0.5	0	0.008	0.023	8	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	8	0	0
Gross beta activity	Bq/l	1	0.05	0.069	0.09	8	0	0

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Date extracted: 10/04/2015				

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