

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: R27			READING WEST			Zone No.: 192		
						Population: 45541		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value			No. of Samples		% of samples contravening PCV
Date extracted: 10/04/2015			(all samples)					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra- vening	
Coliform bacteria	no./100ml	0	0	0.041	5	121	1	0.8
<i>E. coli</i>	no./100ml	0	0	0.041	5	121	1	0.8
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	164	0	0
Colony count 22°C	cfu/ml	-	0	0.079	2	38	0	0
Colony count 37°C	cfu/ml	-	0	0.079	2	38	0	0
Residual Disinfectant	mg/l	-	0.08	0.353	0.64	122	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	0.4	0.846	2.3	37	0	0
Hydrogen Ion	pH	6.50-9.50	7.3	7.438	7.7	37	0	0
Turbidity	FTU	4	0.06	0.067	0.1	37	0	0
Conductivity at 20°C	uS/cm	2500	554	587.973	610	37	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	36	0	0
Chloride as Cl	mg/l	250	23.02	24.581	32.01	8	0	0
Sodium as Na	mg/l	200	10.7	11.6	14.1	8	0	0
Sulphate as SO4	mg/l	250	15.5	17.063	19.1	8	0	0
Nitrate as NO3	mg/l	50	24	28.05	29.8	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	0.48	0.561	0.6	8	0	0
Total Organic Carbon as C	mg/l	-	0.6	1	1.5	16	0	0
Total Hardness as CaCO3	mg/l	N/A	314	318	321	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	1	2.031	3.6	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	3.258	5.3	36	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	0.35	0.6	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	1.038	1.7	8	0	0
Copper as Cu	mg/l	2	<0.004	0.017	0.051	8	0	0
Lead as Pb	ug/l	10	<0.200	0.375	0.6	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.094	<0.120	16	0	0
Nickel as Ni	ug/l	20	<1.300	1.4	1.8	8	0	0
Fluoride as F	mg/l	1.5	0.121	0.138	0.173	8	0	0
Selenium as Se	ug/l	10	<0.800	1.1	1.5	8	0	0
Boron as B	mg/l	1	0.022	0.023	0.025	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.956	4.3	16	0	0
Cyanide as CN	ug/l	50	<0.700	0.744	1.1	16	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	7.7	13.138	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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Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	0.006	0.009	16	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
Bromoxynil	ug/l	0.1	<0.004	<0.005	<0.005	16	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Clopyralid	ug/l	0.1	<0.010	<0.010	<0.010	16	0	0
2,4-D	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	16	0	0
Dichlorprop	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Fluroxypyr	ug/l	0.1	<0.004	<0.006	<0.006	16	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Ioxynil	ug/l	0.1	<0.004	<0.005	<0.005	16	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Mecoprop	ug/l	0.1	<0.008	<0.008	<0.008	16	0	0
MCPA	ug/l	0.1	<0.006	<0.006	<0.006	16	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	16	0	0
Pentachlorophenol	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
2,4,5-T	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	16	0	0
Fenoprop	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Picloram	ug/l	0.1	<0.008	<0.008	<0.008	16	0	0
Triclopyr	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Metaldehyde	ug/l	0.1	<0.005	0.008	0.023	16	0	0
Total Pesticides	ug/l	0.5	0	0.009	0.023	16	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:

Very good water quality, however one infringement to report for coliforms and one infringement to report for *E. coli*. Our investigations showed the infringement for coliforms and *E. coli* were transitory 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