

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:		R24	READING WHITEKNIGHTS			Zone No.:		189
						Population:		39206
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value (all samples)			No. of Samples		
Date extracted: 10/04/2015								
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0	0	108	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	108	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	0.054	1	37	0	0
Colony count 37°C	cfu/ml	-	0	0.811	29	37	0	0
Residual Disinfectant	mg/l	-	0.17	0.448	0.68	108	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.772	1.2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.6	7.733	8	36	0	0
Turbidity	FTU	4	0.04	0.072	0.14	36	0	0
Conductivity at 20°C	uS/cm	2500	466	521.778	553	36	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	36	0	0
Chloride as Cl	mg/l	250	30.75	35.204	44.14	8	0	0
Sodium as Na	mg/l	200	12.6	14.725	19.9	8	0	0
Sulphate as SO4	mg/l	250	19.7	21.238	24.4	8	0	0
Nitrate as NO3	mg/l	50	17.6	21.588	25.2	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	0.35	0.431	0.5	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	238	252	265	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	<2.000	3.45	17.3	36	0	0
Manganese as Mn	ug/l	50	<0.200	0.786	1	36	0	0
Aluminium as Al	ug/l	200	<1.400	4.911	8.2	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	<0.300	<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	1.013	1.5	8	0	0
Copper as Cu	mg/l	2	0.01	0.111	0.521	8	0	0
Lead as Pb	ug/l	10	<0.200	0.325	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	1.75	4.1	8	0	0
Fluoride as F	mg/l	1.5	0.083	0.113	0.131	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.019	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	0.002	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	14.1	21.7	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