

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:		R15	TWYFORD WARGRAVE & SONNING			Zone No.:		180
						Population:		36074
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	0.024	2	84	1	1.2
<i>E. coli</i>	no./100ml	0	0	0	0	84	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	8	0	0
Colony count 22°C	cfu/ml	-	0	0.5	10	36	0	0
Colony count 37°C	cfu/ml	-	0	0.139	4	36	0	0
Residual Disinfectant	mg/l	-	0.06	0.274	0.49	84	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.828	2.9	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.359	8.1	37	0	0
Turbidity	FTU	4	0.04	0.068	0.12	37	0	0
Conductivity at 20°C	uS/cm	2500	528	701.946	888	37	0	0
Ammonium as NH ₄	mg/l	0.5	<0.020	<0.030	<0.030	36	0	0
Chloride as Cl	mg/l	250	24.8	60.67	115.58	8	0	0
Sodium as Na	mg/l	200	15	18.488	30.7	8	0	0
Sulphate as SO ₄	mg/l	250	14.5	22.075	39.9	8	0	0
Nitrate as NO ₃	mg/l	50	23.4	31.088	40.6	8	0	0
Nitrite as NO ₂	mg/l	0.5	<0.010	<0.010	<0.010	8	0	0
Nitrate/Nitrite calculation	mg/l	1	0.47	0.624	0.81	8	0	0
Total Organic Carbon as C	mg/l	-	0.2	0.488	0.7	8	0	0
Total Hardness as CaCO ₃	mg/l	N/A	353	368	382	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	36	0	0
Taste (quantatative)	dilution no.	0	0	0	0	36	0	0
Iron as Fe	ug/l	200	<1.000	7.117	51	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	3.213	4.3	8	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.3	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	<0.963	<1.200	8	0	0
Copper as Cu	mg/l	2	0.009	0.021	0.044	8	0	0
Lead as Pb	ug/l	10	0.2	0.463	0.9	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.084	<0.090	8	0	0
Nickel as Ni	ug/l	20	1.3	1.363	1.8	8	0	0
Fluoride as F	mg/l	1.5	0.093	0.121	0.148	8	0	0
Selenium as Se	ug/l	10	<0.800	0.838	0.9	8	0	0
Boron as B	mg/l	1	0.063	0.072	0.096	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	0.75	1.1	8	0	0
Cyanide as CN	ug/l	50	<0.700	<0.700	<0.700	8	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0.001	0.003	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	0	3.113	6.5	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	0.113	0.2	8	0	0
Atrazine	ug/l	0.1	<0.005	0.006	0.01	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	<0.006	8	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	8	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.005	<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	<0.002	<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	<0.003	<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	<0.003	<0.003	<0.003	8	0	0
Picloram	ug/l	0.1	<0.005	<0.007	<0.008	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	0.008	8	0	0
Total Pesticides	ug/l	0.5	0	0.004	0.01	8	0	0

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Commentary on Water Quality:

Very good water quality, however one infringement to report for coliforms. Our investigations showed the infringement for coliforms was 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