

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

<b>Water Supply Zone:</b> S32			SWINDON CENTRAL			<b>Zone No.:</b> 307		
						<b>Population:</b> 84269		
<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b>			<b>No. of Samples</b>		
<b>Date extracted:</b> 10/04/2015			<b>(all samples)</b>					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0.051	11	216	1	0.5
<i>E. coli</i>	no./100ml	0	0	0	0	216	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	216	0	0
Colony count 22°C	cfu/ml	-	0	1.449	40	78	0	0
Colony count 37°C	cfu/ml	-	0	2.077	107	78	0	0
Residual Disinfectant	mg/l	-	0.08	0.341	0.57	217	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.774	1.4	76	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.404	8	77	0	0
Turbidity	FTU	4	<0.060	0.069	0.12	77	0	0
Conductivity at 20°C	uS/cm	2500	449	551.13	663	77	0	0
Ammonium as NH <sub>4</sub>	mg/l	0.5	<0.020	<0.030	<0.030	77	0	0
Chloride as Cl	mg/l	250	27.94	31.316	37.02	8	0	0
Sodium as Na	mg/l	200	15.3	18.95	24.3	8	0	0
Sulphate as SO <sub>4</sub>	mg/l	250	54.7	60.163	66.4	8	0	0
Nitrate as NO <sub>3</sub>	mg/l	50	13.4	18.05	20.6	8	0	0
Nitrite as NO <sub>2</sub>	mg/l	0.5	<0.010	<0.010	<0.010	8	0	0
Nitrate/Nitrite calculation	mg/l	1	0.27	0.363	0.41	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	1.19	2	20	0	0
Total Hardness as CaCO <sub>3</sub>	mg/l	N/A	267	276	284	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	38	0	0
Taste (quantatative)	dilution no.	0	0	0	0	38	0	0
Iron as Fe	ug/l	200	<1.000	4.743	104.3	76	0	0
Manganese as Mn	ug/l	50	<0.200	0.816	3.4	76	0	0
Aluminium as Al	ug/l	200	<1.400	6.891	10.8	76	0	0
Antimony as Sb	ug/l	5	<0.800	<0.800	<0.800	8	0	0
Arsenic as As	ug/l	10	0.4	0.5	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	0.938	1.2	8	0	0
Copper as Cu	mg/l	2	<0.004	0.014	0.037	8	0	0
Lead as Pb	ug/l	10	0.2	0.238	0.5	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.092	<0.120	20	0	0
Nickel as Ni	ug/l	20	<1.300	<1.300	<1.300	8	0	0
Fluoride as F	mg/l	1.5	0.117	0.147	0.181	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.038	0.045	0.052	8	0	0
Bromate as BrO <sub>3</sub>	ug/l	10	<0.700	0.735	1.1	20	0	0
Cyanide as CN	ug/l	50	<0.700	0.735	1.1	20	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0	9	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	10	0	0
Trihalomethanes	ug/l	100	13.3	17.125	22.9	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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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	20	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	20	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	20	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	20	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	20	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	20	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	20	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	20	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	20	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	20	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	20	0	0
Mecoprop	ug/l	0.1	<0.003	<0.008	<0.008	20	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	20	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	20	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	20	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	20	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	20	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	20	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	20	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	20	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	20	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	20	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Metaldehyde	ug/l	0.1	<0.005	0.014	0.045	21	0	0
Metazachlor	ug/l	0.1	<0.002	<0.002	<0.002	12	0	0
Quinmerac	ug/l	0.1	<0.004	<0.004	<0.004	12	0	0
Total Pesticides	ug/l	0.5	0	0.012	0.045	22	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	12	0	0
Gross beta activity	Bq/l	1	0.09	0.251	1.82	12	1	8.3

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**Commentary on Water Quality:**

Very good water quality, however one infringement to report for gross beta activity and one infringement to report for coliforms. Our investigations (in conjunction with the Environment Agency) showed the infringement for gross beta activity was anomalous at one of our supplying assets (and not likely to recur) and the infringement for coliforms was due to customer plumbing. Neither of these infringements were 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