

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

Water Supply Zone: SWA23 AYLESBURY SOUTHWEST			Zone No.: 276			Population: 24066		
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	188	0	0
Colony count 22°C	cfu/ml	-	0	0.042	1	24	0	0
Colony count 37°C	cfu/ml	-	0	0.28	3	25	0	0
Residual Disinfectant	mg/l	-	0.12	0.242	0.41	60	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	0.808	1.4	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.346	7.6	24	0	0
Turbidity	FTU	4	<0.060	0.07	0.13	24	0	0
Conductivity at 20°C	uS/cm	2500	541	547.417	559	24	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	24	0	0
Chloride as Cl	mg/l	250	20.11	21.639	23.68	8	0	0
Sodium as Na	mg/l	200	10.8	12.225	13.6	8	0	0
Sulphate as SO4	mg/l	250	15.8	18.438	23.4	8	0	0
Nitrate as NO3	mg/l	50	22.6	24.275	25.9	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	0.45	0.485	0.52	8	0	0
Total Organic Carbon as C	mg/l	-	0.4	0.703	1.6	40	0	0
Total Hardness as CaCO3	mg/l	N/A	286	288	290	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	<1.000	2.042	3.5	12	0	0
Manganese as Mn	ug/l	50	<0.200	<0.733	<0.800	9	0	0
Aluminium as Al	ug/l	200	<1.400	3.467	12.3	9	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	0.313	0.4	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	<0.956	<1.200	9	0	0
Copper as Cu	mg/l	2	0.013	0.026	0.046	8	0	0
Lead as Pb	ug/l	10	0.2	0.238	0.4	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.086	<0.090	41	0	0
Nickel as Ni	ug/l	20	<1.300	1.313	1.4	8	0	0
Fluoride as F	mg/l	1.5	0.092	0.12	0.156	8	0	0
Selenium as Se	ug/l	10	<0.800	0.825	0.9	8	0	0
Boron as B	mg/l	1	0.021	0.027	0.034	9	0	0
Bromate as BrO3	ug/l	10	<0.700	<0.700	<0.700	41	0	0
Cyanide as CN	ug/l	50	<0.700	0.71	1.1	40	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	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	0	8.038	13.7	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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<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b> (all samples)			<b>No. of Samples</b>		
<b>Date extracted:</b> 10/04/2015								
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	0.01	0.022	41	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.009	41	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	41	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	41	0	0
Chlortoluron	ug/l	0.1	<0.003	0.004	0.008	41	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	41	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	41	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	41	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	41	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.004	41	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	41	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	41	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	41	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	41	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	41	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	41	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	41	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	41	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.003	41	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	41	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	41	0	0
Simazine	ug/l	0.1	<0.005	0.007	0.012	41	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	41	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	41	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	41	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	41	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	41	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	41	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	41	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	41	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	41	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	41	0	0
Metaldehyde	ug/l	0.1	0.005	0.009	0.026	41	0	0
Total Pesticides	ug/l	0.5	0	0.018	0.038	44	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	9	0	0
Gross beta activity	Bq/l	1	0.1	0.115	0.13	8	0	0

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<b>Water Supply Zone:</b>	SWA23	AYLESBURY SOUTHWEST	<b>Zone No.:</b> 276
			<b>Population:</b> 24066
<b>Time Period:</b> 01/01/2014 to 31/12/2014			
<b>Date extracted:</b> 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