

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

<b>Water Supply Zone:</b> S33 SWINDON TOOTHILL			<b>Zone No.:</b> 308			<b>Population:</b> 15969		
<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b>			<b>No. of Samples</b>		<b>% of samples contravening PCV</b>
<b>Date extracted:</b> 10/04/2015			<b>(all samples)</b>			<b>Total</b>	<b>Contra-vening</b>	
<b>Parameter</b>	<b>Units</b>	<b>PCV</b>	<b>Min.</b>	<b>Mean</b>	<b>Max.</b>	<b>Total</b>	<b>Contra-vening</b>	
Coliform bacteria	no./100ml	0	0	0	0	37	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	37	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	224	0	0
Colony count 22°C	cfu/ml	-	0	1.346	14	26	0	0
Colony count 37°C	cfu/ml	-	0	1.115	15	26	0	0
Residual Disinfectant	mg/l	-	0.12	0.362	0.46	38	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.8	2	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.35	7.6	24	0	0
Turbidity	FTU	4	0.05	0.068	0.09	24	0	0
Conductivity at 20°C	uS/cm	2500	488	550.333	590	24	0	0
Ammonium as NH <sub>4</sub>	mg/l	0.5	<0.020	<0.030	<0.030	25	0	0
Chloride as Cl	mg/l	250	24.21	30.312	35.18	9	0	0
Sodium as Na	mg/l	200	15.3	17.811	22.1	9	0	0
Sulphate as SO <sub>4</sub>	mg/l	250	50.5	58.678	69.2	9	0	0
Nitrate as NO <sub>3</sub>	mg/l	50	13.3	18.078	22.4	9	0	0
Nitrite as NO <sub>2</sub>	mg/l	0.5	<0.010	<0.010	<0.010	9	0	0
Nitrate/Nitrite calculation	mg/l	1	0.27	0.362	0.45	9	0	0
Total Organic Carbon as C	mg/l	-	0.5	1.032	2	28	0	0
Total Hardness as CaCO <sub>3</sub>	mg/l	N/A	246	260	266	4	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	2.329	3.9	24	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	24	0	0
Aluminium as Al	ug/l	200	<1.400	6.117	9.8	24	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	0.463	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	<0.004	0.097	0.699	8	0	0
Lead as Pb	ug/l	10	<0.200	0.275	0.8	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.091	<0.120	28	0	0
Nickel as Ni	ug/l	20	<1.300	2.25	8.9	8	0	0
Fluoride as F	mg/l	1.5	0.126	0.151	0.201	8	0	0
Selenium as Se	ug/l	10	<0.800	0.813	0.9	8	0	0
Boron as B	mg/l	1	0.041	0.044	0.048	8	0	0
Bromate as BrO <sub>3</sub>	ug/l	10	<0.700	0.75	1.4	28	0	0
Cyanide as CN	ug/l	50	<0.700	0.725	1.1	28	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	11.3	15.875	19.8	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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			Population: 15969					
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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	28	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	28	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	28	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	28	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	28	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	28	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	28	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	28	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	28	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	28	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	28	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	28	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	28	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	28	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	28	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	28	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	28	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	28	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	28	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	28	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	28	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	28	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	28	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	28	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	28	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	28	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	28	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	28	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	28	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	28	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	28	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	28	0	0
Metaldehyde	ug/l	0.1	<0.005	0.012	0.045	30	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	0.009	0.045	32	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.045	0.09	21	0	0
Gross beta activity	Bq/l	1	0.05	0.171	1.82	21	1	4.8

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			<b>Population:</b> 15969
<b>Time Period:</b> 01/01/2014 to 31/12/2014			
<b>Date extracted:</b> 10/04/2015			

**Commentary on Water Quality:**

Very good water quality, however one infringement to report for gross beta activity. 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 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