

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: OX12 BOARS HILL			Zone No.: 204			Population: 16375		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value			No. of Samples		
Date extracted: 10/04/2015			(all samples)					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0	0	48	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	48	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	417	0	0
Colony count 22°C	cfu/ml	-	0	0.333	3	24	0	0
Colony count 37°C	cfu/ml	-	0	0.042	1	24	0	0
Residual Disinfectant	mg/l	-	0.13	0.466	0.79	48	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.796	1.7	25	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.256	7.6	25	0	0
Turbidity	FTU	4	<0.040	0.083	0.22	24	0	0
Conductivity at 20°C	uS/cm	2500	477	525.56	585	25	0	0
Ammonium as NH ₄	mg/l	0.5	0.03	0.03	0.03	24	0	0
Chloride as Cl	mg/l	250	30.17	34.053	38.99	8	0	0
Sodium as Na	mg/l	200	14.7	19.225	23.9	8	0	0
Sulphate as SO ₄	mg/l	250	63.2	72.888	91.8	8	0	0
Nitrate as NO ₃	mg/l	50	11.8	16.05	20.5	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	0.24	0.321	0.41	8	0	0
Total Organic Carbon as C	mg/l	-	0.9	1.367	1.6	24	0	0
Total Hardness as CaCO ₃	mg/l	N/A	217	239	260	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	<2.000	12.013	95.7	24	0	0
Manganese as Mn	ug/l	50	0.2	0.858	2.5	24	0	0
Aluminium as Al	ug/l	200	3.3	8.654	13.1	24	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	0.4	0.475	0.7	8	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.113	<0.200	8	0	0
Chromium as Cr	ug/l	50	<0.900	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	0.003	0.02	0.06	8	0	0
Lead as Pb	ug/l	10	<0.200	0.588	1.7	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.093	<0.120	24	0	0
Nickel as Ni	ug/l	20	<1.300	<1.375	<1.600	8	0	0
Fluoride as F	mg/l	1.5	0.092	0.116	0.171	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.035	0.041	0.048	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	0.917	1.6	24	0	0
Cyanide as CN	ug/l	50	<0.700	0.729	1.1	24	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	9	0	0
Trihalomethanes	ug/l	100	6.7	11.475	16.1	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								
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	24	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	24	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	24	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	24	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	24	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	24	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	24	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	24	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	24	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	24	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	24	0	0
Mecoprop	ug/l	0.1	<0.003	<0.008	<0.008	24	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	24	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	24	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	24	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	24	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	24	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	24	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	24	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	24	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	24	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	24	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Metaldehyde	ug/l	0.1	<0.006	0.02	0.045	24	0	0
Metazachlor	ug/l	0.1	<0.002	<0.002	<0.002	24	0	0
Quinmerac	ug/l	0.1	<0.004	<0.004	<0.004	24	0	0
Total Pesticides	ug/l	0.5	0	0.019	0.045	24	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.041	0.05	24	0	0
Gross beta activity	Bq/l	1	0.09	0.182	1.82	24	1	4.2

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			Population:	16375
Time Period: 01/01/2014 to 31/12/2014				
Date extracted: 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