

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: OX 9 EAST OXFORD			Zone No.: 201			Population: 34322		
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	84	0	0
<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	678	0	0
Colony count 22°C	cfu/ml	-	0	0.778	13	36	0	0
Colony count 37°C	cfu/ml	-	0	0.111	2	36	0	0
Residual Disinfectant	mg/l	-	0.11	0.357	0.56	84	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.775	1.1	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.35	8	36	0	0
Turbidity	FTU	4	0.05	0.095	0.43	36	0	0
Conductivity at 20°C	uS/cm	2500	467	550.139	569	36	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	23.53	29.183	37.01	8	0	0
Sodium as Na	mg/l	200	16.7	18.313	20.5	8	0	0
Sulphate as SO ₄	mg/l	250	31.7	48.8	71.2	8	0	0
Nitrate as NO ₃	mg/l	50	12.3	21.538	27.6	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	0.24	0.43	0.55	8	0	0
Total Organic Carbon as C	mg/l	-	0.6	1.216	1.6	32	0	0
Total Hardness as CaCO ₃	mg/l	N/A	276	281	285	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	18	0	0
Taste (quantatative)	dilution no.	0	0	0	0	18	0	0
Iron as Fe	ug/l	200	<2.000	13.042	157.5	36	0	0
Manganese as Mn	ug/l	50	<0.200	0.922	4.2	36	0	0
Aluminium as Al	ug/l	200	<1.400	5.017	15.5	36	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	0.488	0.8	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	<0.900	<0.900	8	0	0
Copper as Cu	mg/l	2	<0.004	0.031	0.099	8	0	0
Lead as Pb	ug/l	10	<0.200	2.55	9.1	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.092	<0.120	32	0	0
Nickel as Ni	ug/l	20	<1.300	1.613	3.8	8	0	0
Fluoride as F	mg/l	1.5	0.108	0.124	0.141	8	0	0
Selenium as Se	ug/l	10	<0.800	0.863	1	8	0	0
Boron as B	mg/l	1	0.032	0.041	0.046	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	0.881	1.6	32	0	0
Cyanide as CN	ug/l	50	<0.700	0.738	1.2	32	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	10	14.356	23	9	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	<0.256	<0.300	9	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	9	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	33	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	32	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	32	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	33	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	33	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	32	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	32	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	32	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	32	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	33	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	32	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	33	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	32	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	33	0	0
Mecoprop	ug/l	0.1	<0.003	<0.008	<0.008	32	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	32	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	32	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	32	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.003	33	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.003	33	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	33	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	33	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	32	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	33	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	32	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	32	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	33	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	32	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	32	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.003	33	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.003	33	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.003	33	0	0
Metaldehyde	ug/l	0.1	<0.006	0.016	0.045	33	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	0.016	0.045	33	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:	34322
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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