

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: OX 1 ABINGDON			Zone No.: 193					
			Population: 22596					
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value (all samples)			No. of Samples		
Date extracted: 10/04/2015								
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
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	469	0	0
Colony count 22°C	cfu/ml	-	0	0.5	6	24	0	0
Colony count 37°C	cfu/ml	-	0	0.2	3	25	0	0
Residual Disinfectant	mg/l	-	0.13	0.42	0.7	60	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.771	1	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.271	7.6	24	0	0
Turbidity	FTU	4	0.04	0.075	0.15	24	0	0
Conductivity at 20°C	uS/cm	2500	488	557.292	575	24	0	0
Ammonium as NH ₄	mg/l	0.5	<0.030	<0.030	<0.030	24	0	0
Chloride as Cl	mg/l	250	22.63	26.223	37.2	8	0	0
Sodium as Na	mg/l	200	15.6	17.425	21.1	8	0	0
Sulphate as SO ₄	mg/l	250	26.9	36.538	78	8	0	0
Nitrate as NO ₃	mg/l	50	14.2	25.563	29.3	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	0.28	0.511	0.59	8	0	0
Total Organic Carbon as C	mg/l	-	0.6	1.165	1.6	20	0	0
Total Hardness as CaCO ₃	mg/l	N/A	288	288	288	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	7.108	57.7	24	0	0
Manganese as Mn	ug/l	50	<0.200	1.196	5	24	0	0
Aluminium as Al	ug/l	200	<1.400	4.242	9.4	24	0	0
Antimony as Sb	ug/l	5	<0.500	<0.767	<0.800	9	0	0
Arsenic as As	ug/l	10	<0.300	0.433	0.5	9	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.111	<0.200	9	0	0
Chromium as Cr	ug/l	50	<0.800	<0.889	<0.900	9	0	0
Copper as Cu	mg/l	2	0.009	0.108	0.648	8	0	0
Lead as Pb	ug/l	10	<0.200	3.35	23.2	8	1	12.5
Mercury as Hg	ug/l	1	<0.090	<0.092	<0.120	20	0	0
Nickel as Ni	ug/l	20	<1.300	1.775	2.7	8	0	0
Fluoride as F	mg/l	1.5	0.101	0.122	0.139	8	0	0
Selenium as Se	ug/l	10	<0.800	0.811	0.9	9	0	0
Boron as B	mg/l	1	0.039	0.042	0.048	9	0	0
Bromate as BrO ₃	ug/l	10	<0.700	0.765	1.1	20	0	0
Cyanide as CN	ug/l	50	<0.700	0.725	1.2	20	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0.001	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	6.1	10.638	20.8	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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Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	21	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	21	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	21	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	21	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	21	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	21	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	<0.004	<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	21	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	21	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	21	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	21	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	21	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	21	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Metaldehyde	ug/l	0.1	<0.006	0.015	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	0.015	0.045	21	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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			Population:	22596
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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 and one infringement to report for lead. 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 lead was transitory. 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