

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:		SWA28	WYCOMBE SOUTH NORTH & CENTRAL				Zone No.:		315
							Population:		66141
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value			No. of Samples		% of samples contravening PCV	
Date extracted: 10/04/2015			(all samples)						
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra- vening		
Coliform bacteria	no./100ml	0	0	0	0	168	0	0	
<i>E. coli</i>	no./100ml	0	0	0	0	168	0	0	
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0	
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	180	0	0	
Colony count 22°C	cfu/ml	-	0	1.615	55	52	0	0	
Colony count 37°C	cfu/ml	-	0	0.577	18	52	0	0	
Residual Disinfectant	mg/l	-	0.13	0.343	0.66	168	0	0	
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	0.821	2.3	53	0	0	
Hydrogen Ion	pH	6.50-9.50	7.1	7.257	7.7	53	0	0	
Turbidity	FTU	4	<0.060	0.068	0.12	52	0	0	
Conductivity at 20°C	uS/cm	2500	502	549.113	627	53	0	0	
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	53	0	0	
Chloride as Cl	mg/l	250	18.62	20.854	27.01	8	0	0	
Sodium as Na	mg/l	200	9.7	11.663	15.8	8	0	0	
Sulphate as SO4	mg/l	250	9.2	15.088	27.7	8	0	0	
Nitrate as NO3	mg/l	50	21.7	22.888	25.2	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	0.43	0.459	0.5	8	0	0	
Total Organic Carbon as C	mg/l	-	0.4	0.759	1.6	32	0	0	
Total Hardness as CaCO3	mg/l	N/A	293	296	298	2	0	0	
Odour (quantatative)	dilution no.	0	0	0	0	26	0	0	
Taste (quantatative)	dilution no.	0	0	0	0	26	0	0	
Iron as Fe	ug/l	200	<1.000	22.283	1042.2	52	1	1.9	
Manganese as Mn	ug/l	50	<0.200	0.848	5.1	52	0	0	
Aluminium as Al	ug/l	200	<1.400	2.983	6.6	52	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	0.313	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	<0.938	<1.200	8	0	0	
Copper as Cu	mg/l	2	0.009	0.027	0.115	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	<0.085	<0.090	33	0	0	
Nickel as Ni	ug/l	20	<1.300	<1.338	<1.600	8	0	0	
Fluoride as F	mg/l	1.5	0.063	0.102	0.15	9	0	0	
Selenium as Se	ug/l	10	<0.800	0.838	1.1	8	0	0	
Boron as B	mg/l	1	0.017	0.025	0.041	8	0	0	
Bromate as BrO3	ug/l	10	<0.700	<0.700	<0.700	32	0	0	
Cyanide as CN	ug/l	50	<0.700	0.713	1.1	32	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	3.722	8.9	9	0	0	
Tetra- & Trichloroethene calc	ug/l	10	0	0.313	1.3	8	0	0	
Tetrachloromethane	ug/l	3	<0.200	0.211	0.3	9	0	0	
1,2 dichloroethane	ug/l	3	<0.200	<0.270	<0.300	10	0	0	

NOTE: PCV = Prescribed Concentration or Value

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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	10	0	0
Atrazine	ug/l	0.1	<0.005	0.011	0.022	33	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	33	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	33	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	33	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	33	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	33	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	33	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.004	33	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	33	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	33	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	33	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	33	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	33	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	33	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	33	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	<0.002	33	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	33	0	0
Simazine	ug/l	0.1	<0.005	0.006	0.009	33	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	33	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	33	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	33	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	33	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	33	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	33	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	33	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	33	0	0
Metaldehyde	ug/l	0.1	<0.005	0.009	0.026	33	0	0
Total Pesticides	ug/l	0.5	0	0.016	0.034	36	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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Date extracted: 10/04/2015				

Commentary on Water Quality:

Very good water quality, however one infringement to report for iron. Our investigations showed the infringement for iron was transitory 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