

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:		G7	GUILDFORD DISTRICT WEST			Zone No.:		269
						Population:		43014
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	108	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	108	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	61	0	0
Colony count 22°C	cfu/ml	-	0	0.361	3	36	0	0
Colony count 37°C	cfu/ml	-	0	0.111	4	36	0	0
Residual Disinfectant	mg/l	-	0.12	0.263	0.42	108	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	0.819	1.4	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.325	7.7	36	0	0
Turbidity	FTU	4	<0.060	0.071	0.12	36	0	0
Conductivity at 20°C	uS/cm	2500	437	551.944	586	36	0	0
Ammonium as NH ₄	mg/l	0.5	<0.030	<0.030	<0.030	36	0	0
Chloride as Cl	mg/l	250	31.69	34.879	44.09	8	0	0
Sodium as Na	mg/l	200	16	19.313	25.6	8	0	0
Sulphate as SO ₄	mg/l	250	28.9	36.713	39.1	8	0	0
Nitrate as NO ₃	mg/l	50	23.4	26.788	28.7	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	0.47	0.536	0.57	8	0	0
Total Organic Carbon as C	mg/l	-	0.3	0.969	1.8	16	0	0
Total Hardness as CaCO ₃	mg/l	N/A	276	286	295	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	1.8	6.767	54.9	36	0	0
Manganese as Mn	ug/l	50	<0.200	0.933	3.3	36	0	0
Aluminium as Al	ug/l	200	<1.400	3.464	5.9	36	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.3	0.413	0.5	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	0.01	0.059	0.263	8	0	0
Lead as Pb	ug/l	10	<0.200	1.663	10.8	8	1	12.5
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.090	16	0	0
Nickel as Ni	ug/l	20	<1.300	1.638	2.3	8	0	0
Fluoride as F	mg/l	1.5	0.124	0.14	0.156	8	0	0
Selenium as Se	ug/l	10	0.9	1.475	1.8	8	0	0
Boron as B	mg/l	1	0.033	0.046	0.05	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	0.725	1.1	16	0	0
Cyanide as CN	ug/l	50	<0.700	0.925	2.1	16	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	4.7	15.025	40.2	8	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0.15	0.3	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			(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	0.007	0.012	16	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	16	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	16	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	16	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	16	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	16	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	16	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	16	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	16	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	16	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	16	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	16	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	16	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	16	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	16	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	16	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	16	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Metaldehyde	ug/l	0.1	<0.005	0.01	0.057	16	0	0
Total Pesticides	ug/l	0.5	0	0.01	0.057	16	0	0
Gross alpha activity	Bq/l	0.1	0.04	0.041	0.05	8	0	0
Gross beta activity	Bq/l	1	0.08	0.096	0.16	8	0	0

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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 lead. Our investigations showed the infringement for lead 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