

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

<b>Water Supply Zone:</b> SLE 8 ELTHAM PARK			<b>Zone No.:</b> 66					
			<b>Population:</b> 50633					
<b>Time Period: 01/01/2014 to 31/12/2014</b>			<b>Concentration or Value (all samples)</b>			<b>No. of Samples</b>		
<b>Date extracted: 10/04/2015</b>								
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0.121	16	132	1	0.8
<i>E. coli</i>	no./100ml	0	0	0	0	132	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	1432	0	0
Colony count 22°C	cfu/ml	-	0	3.453	54	53	0	0
Colony count 37°C	cfu/ml	-	0	2.868	46	53	0	0
Residual Disinfectant	mg/l	-	0.08	0.273	0.49	132	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	0.4	1.248	3.3	52	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.51	8	52	0	0
Turbidity	FTU	4	0.04	0.078	0.21	52	0	0
Conductivity at 20°C	uS/cm	2500	527	602.577	710	52	0	0
Ammonium as NH <sub>4</sub>	mg/l	0.5	0.03	0.053	0.14	52	0	0
Chloride as Cl	mg/l	250	34.63	40.221	45.26	8	0	0
Sodium as Na	mg/l	200	22.4	25.313	29.6	8	0	0
Sulphate as SO <sub>4</sub>	mg/l	250	41.9	47.15	57.4	8	0	0
Nitrate as NO <sub>3</sub>	mg/l	50	21	26.902	36.3	52	0	0
Nitrite as NO <sub>2</sub>	mg/l	0.5	<0.010	0.043	0.13	52	0	0
Nitrate/Nitrite calculation	mg/l	1	0.43	0.551	0.73	52	0	0
Total Organic Carbon as C	mg/l	-	0.5	1.94	3.8	129	0	0
Total Hardness as CaCO <sub>3</sub>	mg/l	N/A	247	264	280	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	<2.000	3.825	11.1	52	0	0
Manganese as Mn	ug/l	50	<0.200	<0.767	<0.800	52	0	0
Aluminium as Al	ug/l	200	<1.400	4.685	8.6	52	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	<0.300	0.788	1.1	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	<0.950	<1.200	8	0	0
Copper as Cu	mg/l	2	<0.004	0.028	0.124	8	0	0
Lead as Pb	ug/l	10	<0.200	2.788	7.1	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.088	<0.120	129	0	0
Nickel as Ni	ug/l	20	<1.300	1.588	3.3	8	0	0
Fluoride as F	mg/l	1.5	0.116	0.143	0.187	8	0	0
Selenium as Se	ug/l	10	0.9	1.288	2.8	8	0	0
Boron as B	mg/l	1	0.046	0.058	0.092	8	0	0
Bromate as BrO <sub>3</sub>	ug/l	10	<0.700	1.012	14.5	130	1	0.8
Cyanide as CN	ug/l	50	<0.700	0.739	1.5	129	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	4.2	15.3	22.5	8	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0.275	1.1	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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<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b> (all samples)			<b>No. of Samples</b>		
<b>Date extracted:</b> 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	0.008	129	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	131	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.010	131	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	129	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	129	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.012	131	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.006	131	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.010	131	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.012	131	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	129	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	131	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	129	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.010	131	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	129	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	131	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.008	131	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	131	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.006	131	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	128	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	128	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	129	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.009	129	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.010	131	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	128	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.010	131	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.006	131	0	0
Monuron	ug/l	0.1	<0.003	0.003	0.004	129	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.010	131	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.010	131	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	128	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	128	0	0
Carbendazim	ug/l	0.1	<0.002	0.002	0.008	129	0	0
Metaldehyde	ug/l	0.1	<0.005	0.033	0.083	129	0	0
Metazachlor	ug/l	0.1	<0.002	0.003	0.008	106	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.017	107	0	0
Total Pesticides	ug/l	0.5	0	0.039	0.134	145	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.055	0.07	6	0	0
Gross beta activity	Bq/l	1	0.14	0.165	0.19	6	0	0

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<b>Water Supply Zone:</b>	SLE 8	ELTHAM PARK	<b>Zone No.:</b>	66
			<b>Population:</b>	50633
<b>Time Period:</b> 01/01/2014 to 31/12/2014				
<b>Date extracted:</b> 10/04/2015				

**Commentary on Water Quality:**

Very good water quality, however one infringement to report for bromate and one infringement to report for coliforms. Our investigations showed the infringement for bromate was transitory at a supplying asset and the infringement for coliforms 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