

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: SLE41 DARTFORD SOUTH			Zone No.: 323					
			Population: 41839					
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	108	0	0
E. coli	no./100ml	0	0	0	0	108	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	24	0	0
Colony count 22°C	cfu/ml	-	0	1.595	33	37	0	0
Colony count 37°C	cfu/ml	-	0	0.324	10	37	0	0
Residual Disinfectant	mg/l	-	0.14	0.383	0.59	108	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	<0.778	<0.800	37	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.251	7.8	37	0	0
Turbidity	FTU	4	<0.040	0.069	0.18	36	0	0
Conductivity at 20°C	uS/cm	2500	550	629.432	697	37	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	36	0	0
Chloride as Cl	mg/l	250	29.67	39.718	52.2	8	0	0
Sodium as Na	mg/l	200	16.7	19.688	22.7	8	0	0
Sulphate as SO4	mg/l	250	21.8	28.088	32.8	8	0	0
Nitrate as NO3	mg/l	50	27.1	34.925	41.9	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	0.54	0.699	0.84	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	0.65	0.9	16	0	0
Total Hardness as CaCO3	mg/l	N/A	315	337	358	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	19	0	0
Taste (quantatative)	dilution no.	0	0	0	0	18	0	0
Iron as Fe	ug/l	200	<2.000	3.592	12.1	12	0	0
Manganese as Mn	ug/l	50	<0.800	<0.800	<0.800	8	0	0
Aluminium as Al	ug/l	200	<1.400	2.525	5	8	0	0
Antimony as Sb	ug/l	5	<0.800	<0.800	<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	0.925	1.1	8	0	0
Copper as Cu	mg/l	2	<0.004	0.026	0.064	8	0	0
Lead as Pb	ug/l	10	<0.200	0.963	4.6	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.089	<0.120	16	0	0
Nickel as Ni	ug/l	20	<1.300	<1.300	<1.300	8	0	0
Fluoride as F	mg/l	1.5	0.088	0.117	0.146	8	0	0
Selenium as Se	ug/l	10	<0.800	1.025	1.4	8	0	0
Boron as B	mg/l	1	0.036	0.037	0.039	8	0	0
Bromate as BrO3	ug/l	10	<0.700	<0.700	<0.700	16	0	0
Cyanide as CN	ug/l	50	<0.700	0.713	0.8	16	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	9	0	0
Trihalomethanes	ug/l	100	0.8	2.613	3.8	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	<0.250	<0.300	8	0	0

NOTE: PCV = Prescribed Concentration or Value

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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	0.006	0.008	16	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.006	17	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.010	17	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	<0.012	17	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.006	17	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.010	17	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.012	17	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	17	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	<0.010	17	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Mecoprop	ug/l	0.1	<0.003	<0.008	<0.008	17	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.008	17	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	17	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.006	17	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	0.007	0.009	16	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.010	17	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	<0.010	17	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.006	17	0	0
Monuron	ug/l	0.1	<0.003	0.003	0.004	16	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.010	17	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.010	17	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	0.006	0.01	16	0	0
Total Pesticides	ug/l	0.5	0	0.007	0.025	22	0	0

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Commentary on Water Quality:

Excellent quality water with no infringements to report for the Water Supply Zone.

NOTES:

For some parameters, monitoring occurs at the supplying Water Treatment Works rather than the Water Supply Zone