

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: SLE33 SOUTH DARENTH			Zone No.: 91			Population: 35896		
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	0.01	1	96	1	1
<i>E. coli</i>	no./100ml	0	0	0	0	96	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	40	0	0
Colony count 22°C	cfu/ml	-	0	0.139	2	36	0	0
Colony count 37°C	cfu/ml	-	0	0.056	1	36	0	0
Residual Disinfectant	mg/l	-	0.26	0.454	0.66	96	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	0.794	1.1	36	0	0
Hydrogen Ion	pH	6.50-9.50	7	7.181	7.6	36	0	0
Turbidity	FTU	4	<0.040	0.074	0.19	36	0	0
Conductivity at 20°C	uS/cm	2500	545	668.444	722	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	33.559	35.25	8	0	0
Sodium as Na	mg/l	200	18.2	19.038	21.1	8	0	0
Sulphate as SO ₄	mg/l	250	29.8	34.875	41	8	0	0
Nitrate as NO ₃	mg/l	50	37.7	40.25	42.4	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	0.75	0.804	0.85	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	0.672	0.9	32	0	0
Total Hardness as CaCO ₃	mg/l	N/A	329	338	347	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	<1.000	4.403	36.5	36	0	0
Manganese as Mn	ug/l	50	<0.800	0.825	1	8	0	0
Aluminium as Al	ug/l	200	<1.400	2.463	4.2	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	<0.900	<0.900	8	0	0
Copper as Cu	mg/l	2	<0.004	0.029	0.086	8	0	0
Lead as Pb	ug/l	10	<0.200	0.35	1.2	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.088	<0.120	32	0	0
Nickel as Ni	ug/l	20	<1.300	1.4	2.1	8	0	0
Fluoride as F	mg/l	1.5	0.087	0.11	0.131	8	0	0
Selenium as Se	ug/l	10	1	1.2	1.4	8	0	0
Boron as B	mg/l	1	0.034	0.038	0.046	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	<0.700	<0.700	32	0	0
Cyanide as CN	ug/l	50	<0.700	0.815	1.6	33	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	8	0	0
Trihalomethanes	ug/l	100	0.8	4.775	9.8	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	0.008	0.014	32	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.006	33	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.010	33	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	32	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	32	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.012	33	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.006	33	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.010	33	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.012	33	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	32	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	32	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.010	33	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	32	0	0
Mecoprop	ug/l	0.1	<0.003	0.008	0.011	33	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.008	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	<0.006	33	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	32	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	32	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	32	0	0
Simazine	ug/l	0.1	<0.005	0.006	0.009	32	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.010	33	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	32	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.010	33	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.006	33	0	0
Monuron	ug/l	0.1	<0.003	0.003	0.004	32	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.016	33	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.010	33	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	32	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	32	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	32	0	0
Metaldehyde	ug/l	0.1	<0.005	0.007	0.034	32	0	0
Total Pesticides	ug/l	0.5	0	0.012	0.048	38	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.044	0.07	8	0	0
Gross beta activity	Bq/l	1	0.06	0.085	0.1	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 coliforms. Our investigations showed the infringement for coliforms 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