

Drinking Water Quality Report for The Bridge Supply Zone ZTW0101

Areas covered by Report:	The Bridge, Dartford
Report Period:	01 January 2018 to 31 December 2018
Upstream Zone:	Thames Water Dartford North WSZ (Z0324)
Population:	1872
Notices:	n/a

Commentary on Water Quality

The water supplied to the The Bridge zone originates from a ground water source that is chlorinated. The analysis results indicate the quality of the water supplied to this zone is very good with no contraventions recorded or detected during 2018.

There were 2 customer contacts during the period of this report. 1 concerning "appearance" and the other "taste or odour". The investigations by IWNL concluded that the water supplied was compliant with regulations.

Hardness Rating:	The water supplied to this zone is classified as hard as it contains naturally elevated concentrations of calcium and magnesium.					
	Soft	Moderately Soft	Slightly Hard	Moderately Hard	Hard	Very Hard
CaCO ₃ mg/l	0-50	50-100	100-150	150-200	200-300	300+

Microbiological Indicators

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Coliform Bacteria (Indicator)	No. 100/ml	12	0	0	0	0
E.coli (faecal coliforms Confirmed)	No. 100/ml	12	0	0	0	0
Enterococci (Confirmed)	No. 100/ml	4	0	0	0	0
Sulphite-reducing Clostridia (Confirmed)	No. 100/ml	5	0	0	0	0

Physio-Chemical Parameters

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Ammonium (Total)	mg/l NH ₄	5	0.004	0.005	0.004	0.5
Boron	mg/l B	4	0.04	0.05	0.04	1
Bromate	ug/l BrO ₃	4	0.1	0.1	0.10	10
Chloride	mg/l	5	39.6	42.6	40.88	250
Colour	mg/l Pt/Co	5	1	1	1.00	20
Cyanide (Total)	ug/l CN	4	0.7	0.7	0.7	50

Physio-Chemical Parameters continued

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Electrical Conductivity	uS/cm @ 20 C	5	629	653	640.0	2500
Fluoride (Total)	mg/l F	4	0.11	0.14	0.125	1.5
Free Residual Chlorine	mg/l	12	0.11	0.45	0.309	No Specific PCV
Hydrogen ion	pH value	5	7.17	7.27	7.215	6.5-9.5
Nitrate (Total)	mg/l NO3	4	35.2	38.5	36.68	50
Nitrite - Consumer's Taps	mg/l NO3	4	0.002	0.002	0.0020	0.5
Nitrite/Nitrate formula	No Units	4	0.7	0.77	0.733	1
Sodium	mg/l Na	4	20.5	21.6	21	200
Sulphate	mg/l SO4	5	27.9	30.4	29.65	250
Total Residual Chlorine	mg/l	12	0.21	0.68	0.388	No Specific PCV
Turbidity (CT)	FTU	5	0.09	0.23	0.155	4

Hydrocarbons / Organics

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
1 1 1-Trichloroethane (Total)	ug/l	5	0.04	0.04	0.040	0.1
1 2-Dichloroethane (Total)	ug/l	5	0.07	0.07	0.070	3
Benzene (Total)	ug/l	5	0.02	0.02	0.020	1
Benzo[a]Pyrene (Total)	ug/l	4	0.00022	0.00022	0.000220	0.01
Benzo[b]Fluoranthene (Total)	ug/l	4	0.00052	0.00052	0.000520	The sum of PAHs must be <0.1 ug/l
Benzo[ghi]Perylene (Total)	ug/l	4	0.0004	0.0004	0.000400	The sum of PAHs must be <0.1 ug/l
Benzo[k]Fluoranthene (Total)	ug/l	4	0.00047	0.00047	0.000470	The sum of PAHs must be <0.1 ug/l
Bromodichloromethane (Total)	ug/l	5	1.03	1.22	1.115	60
ChloroDibromomethane (Total)	ug/l	5	2.13	2.69	2.498	100
Indeno[1 2 3-cd]Pyrene (Total)	ug/l	4	0.00048	0.00048	0.00048	The sum of PAHs must be <0.1 ug/l
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	ug/l	4	0	0.01	0.0065	0.1
Tetrachloroethene (Total)	ug/l	5	0.05	1.32	0.788	10
Tetrachloromethane (Total)	ug/l	5	0.02	0.04	0.025	3
Total Organic Carbon	mg/l C	4	0.7	0.8	0.725	NO ABNORMAL CHANGE
Total Trichloroethene & Tetrachloroethene (Total by Calculation)	ug/l	5	0.81	1.32	1.0125	100

Hydrocarbons / Organics continued

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Tribromomethane-Bromoform (Total)	ug/l	5	2.33	2.86	2.568	100
Trichloroethene (Total)	ug/l	5	0.05	0.16	0.078	10
Trichloromethane-Chloroform (Total)	ug/l	5	0.3	0.5	0.350	300
Trihalomethanes (Total by Calculation)	ug/l	5	5.6	8.67	6.793	100

Metals

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Aluminium (Total)	ug/l Al	4	7.22	7.22	7.22	200
Antimony	ug/l Sb	4	0.075	0.08	0.0788	5
Arsenic (Total)	ug/l As	4	0.22	0.53	0.3125	10
Cadmium (Total)	ug/l Cd	4	0.006	0.013	0.01125	5
Chromium (Total)	ug/l Cr	4	0.39	0.52	0.4375	50
Copper (Total)	mg/l Cu	4	0.0158	0.0801	0.0455	2
Iron (Total)	ug/l Fe	4	0.7	1.69	0.95	200
Lead (10)	ug/l Pb	4	0.13	0.37	0.26	10
Manganese (Total)	ug/l Mn	4	0.22	0.22	0.22	50
Mercury (Total)	ug/l Hg	4	0.02	0.05	0.030	1
Nickel (Total)	ug/l Ni	4	0.76	2.26	1.41	20
Selenium (Total)	ug/l Se	4	0.71	2.36	1.2225	10

Organoleptic Parameters

Parameter	units of measurement	Number of Samples	Minimum	Max	Average	Prescribed Concentration or Value
Odour (Quantitative)	Dilution Number	5	0	0	0	0
Taste(Quantitative)	Dilution Number	5	0	0	0	0

Notes

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

Glossary of Terms

Term	Definition
PCV	Prescribed Concentration or Value
mg/l	Milligrammes per Litre or parts per million
µg/l	Microgrammes per Litre or parts per billion
Pt/Co	Platinum/Cobalt
µS/cm	Micro Siemens per Centimetre
Bq/l	Becquerel per Litre
NTU	Nephelometric Turbidity Units
