Drinking Water Quality Report for The Bridge Supply Zone ZTW0101

Areas covered by Report:	The Bridge, Dartford
Report Period:	01 January 2019 to 31 December 2019
Upstream Zone:	Thames Water Dartford North WSZ (Z0324)
Population:	2052
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 2019

There were 4 customer contacts during the period of this report: 2 concerning "Water Quality Reports", 1 concerning "Illness" and 1 concerning "Taste". 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
CaCO3 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**	13	0	0	0.0	**0**
E.coli (faecal coliforms Confirmed)	**No. 100/ml**	13	0	0	0.0	**0**
Enterococci (Confirmed)	**No. 100/ml**	5	0	0	0.0	**0**
Sulphite-reducing Clostridia (Confirmed)	**No. 100/ml**	4	0	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 NH4**	4	0.004	0.004	0.0040	**0.5**
Boron	**mg/l B**	4	0.04	0.04	0.036	**1**
Bromate	**ug/l BrO3**	4	0.1	0.3	0.18	**10**
Chloride	**mg/l**	4	39.1	41.1	40.10	**250**
Colour	**mg/l Pt/Co**	4	1	1	1.00	**20**
Cyanide (Total)	**ug/l CN**	5	0.7	1.7	1.00	**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	4	610	647	630.3	2500
Fluoride (Total)	mg/l F	4	0.12	0.13	0.123	1.5
Free Residual Chlorine	mg/l	12	0.1	0.44	0.33	No Specific PCV
Hydrogen ion	pH value	4	7.13	7.23	7.180	6.5-9.5
Nitrate (Total)	mg/l NO3	3	35.9	36.5	36.13	50
Nitrite - Consumer's Taps	mg/l NO3	3	0.002	0.002	0.0020	0.5
Nitrite/Nitrate formula	No Units	3	0.72	0.73	0.723	1
Sodium	mg/l Na	4	19.7	20.8	20.20	200
Sulphate	mg/l SO4	4	27.7	30.1	29.23	250
Total Residual Chlorine	mg/l	12	0.31	0.66	0.413	No Specific PVC
Turbidity (CT)	FTU	4	0.1	0.22	0.145	4

Hydrocarbons / Organics

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
1 1 1-Trichloroethane (Total)	ug/l	3	0.04	0.18	0.107	0.1
1 2-Dichloroethane (Total)	ug/l	3	0.07	0.13	0.100	3
Benzene (Total)	ug/l	3	0.02	0.07	0.040	1
Benzo[a]Pyrene (Total)	ug/l	5	0.00022	0.00022	0.000220	0.01
Benzo[b]Fluoranthene (Total)	ug/l	5	0.00052	0.00052	0.000520	The sum of PAHs must be <0.1 ug/l
Benzo[ghi]Perylene (Total)	ug/l	5	0.0004	0.0004	0.000400	The sum of PAHs must be <0.1 ug/l
Benzo[k]Fluoranthene (Total)	ug/l	5	0.00047	0.00047	0.000470	The sum of PAHs must be <0.1 ug/l
Bromodichloromethane (Total)	ug/l	3	0.65	1.29	0.933	60
ChloroDibromomethane (Total)	ug/l	3	1.9	2.79	2.383	100
Indeno[1 2 3-cd]Pyrene (Total)	ug/l	5	0.00048	0.00048	0.000480	The sum of PAHs must be <0.1 ug/l
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	ug/l	5	0.003	0.02	0.012	0.1
Tetrachloroethene (Total)	ug/l	3	0.72	1	0.883	10
Tetrachloromethane (Total)	ug/l	3	0.02	0.14	0.067	3
Total Organic Carbon	mg/l C	4	0.7	1	0.80	NO ABNORMAL CHANGE
Total Trichloroethene & Tetrachloroethene (Total by Calculation)	ug/l	3	0.72	1	0.9	100

Hydrocarbons / Organics continued

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Tribromomethane-Bromoform (Total)	ug/l	3	1.96	3.2	2.527	100
Trichloroethene (Total)	ug/l	3	0.05	0.34	0.163	10
Trichloromethane-Chloroform (Total)	ug/l	3	0.35	0.73	0.490	300
Trihalomethanes (Total by Calculation)	ug/l	3	4.9	8.01	6.333	100

Metals

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Aluminium (Total)	ug/l Al	4	3.21	7.22	6.218	200
Antimony	ug/l Sb	4	0.07	0.09	0.078	5
Arsenic (Total)	ug/l As	4	0.19	0.24	0.218	10
Cadmium (Total)	ug/l Cd	4	0.003	0.013	0.0080	5
Chromium (Total)	ug/l Cr	4	0.22	0.52	0.360	50
Copper (Total)	mg/l Cu	4	0.0102	0.109	0.04218	2
Iron (Total)	ug/l Fe	4	0.7	0.7	0.700	200
Lead (10)	ug/l Pb	4	0.12	0.26	0.190	10
Manganese (Total)	ug/l Mn	4	0.22	0.22	0.220	50
Mercury (Total)	ug/l Hg	4	0.03	0.03	0.030	1
Nickel (Total)	ug/l Ni	4	1.14	1.87	1.393	20
Selenium (Total)	ug/l Se	4	0.81	1.02	0.9	10

Organoleptic Parameters

Parameter	units of measurement	Number of Samples	Minimum	Max	Average	Prescribed Concentration or Value
Odour (Quantitative)	Dilution Number	4	0	0	0.0	0
Taste(Quantitative)	Dilution Number	4	0	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