

Drinking Water Quality Report for Bishop's Stortford Zone ZAF0201

Areas covered by Report:	Bishop's Stortford
Report Period:	01 January 2018 to 31 December 2018
Upstream Zone:	Affinity Water Bishops Stortford WSZ (2018)
Population:	99
Notices:	n/a

Commentary on Water Quality

The water supplied to the Bishop's Stortford 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.

IWNL received 0 customer contacts during the period of this report.

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	1	0	0	0	0
E.coli (faecal coliforms Confirmed)	No. 100/ml	1	0	0	0	0
Enterococci (Confirmed)	No. 100/ml	1	0	0	0	0
Sulphite-reducing Clostridia (Confirmed)	No. 100/ml	1	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	1	0.012	0.012	0.012	0.5
Boron	mg/l B	1	0.03	0.03	0.03	1
Bromate	ug/l BrO3	1	0.1	0.1	0.10	10
Chloride	mg/l	1	25.0	25.0	25.00	250
Colour	mg/l Pt/Co	1	1	1	1.00	20
Cyanide (Total)	ug/l CN	1	0.9	0.9	0.9	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	1	646	646	646.0	2500
Fluoride (Total)	mg/l F	1	0.21	0.21	0.210	1.5
Free Residual Chlorine	mg/l	1	0.2	0.2	0.200	No Specific PCV
Hydrogen ion	pH value	1	7.29	7.29	7.290	6.5-9.5
Nitrate (Total)	mg/l NO3	1	23.4	23.4	23.40	50
Nitrite - Consumer's Taps	mg/l NO3	1	0.002	0.002	0.0020	0.5
Nitrite/Nitrate formula	No Units	1	0.47	0.47	0.470	1
Sodium	mg/l Na	1	12.2	12.2	12.2	200
Sulphate	mg/l SO4	1	27.4	27.4	27.40	250
Total Residual Chlorine	mg/l	1	0.27	0.27	0.270	No Specific PVC
Turbidity (CT)	FTU	1	0.12	0.12	0.120	4

Hydrocarbons / Organics

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
1 1 1-Trichloroethane (Total)	ug/l	1	0.04	0.04	0.040	0.1
1 2-Dichloroethane (Total)	ug/l	1	0.07	0.07	0.070	3
Benzene (Total)	ug/l	1	0.02	0.02	0.020	1
Benzo[a]Pyrene (Total)	ug/l	1	0.00022	0.00022	0.000220	0.01
Benzo[b]Fluoranthene (Total)	ug/l	1	0.00052	0.00052	0.000520	The sum of PAHs must be <0.1 ug/l
Benzo[ghi]Perylene (Total)	ug/l	1	0.0004	0.0004	0.000400	The sum of PAHs must be <0.1 ug/l
Benzo[k]Fluoranthene (Total)	ug/l	1	0.00047	0.00047	0.000470	The sum of PAHs must be <0.1 ug/l
Bromodichloromethane (Total)	ug/l	1	0.79	0.79	0.790	60
ChloroDibromomethane (Total)	ug/l	1	2.04	2.04	2.040	100
Indeno[1 2 3-cd]Pyrene (Total)	ug/l	1	0.00048	0.00048	0.00048	The sum of PAHs must be <0.1 ug/l
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	ug/l	1	0.004	0.004	0.0040	0.1
Tetrachloroethene (Total)	ug/l	1	0.05	0.05	0.050	10
Tetrachloromethane (Total)	ug/l	1	0.02	0.02	0.020	3
Total Organic Carbon	mg/l C	1	0.5	0.5	0.500	NO ABNORMAL CHANGE
Total Trichloroethene & Tetrachloroethene (Total by Calculation)	ug/l	1	0	0	0	100

Hydrocarbons / Organics continued

Parameter	units of measurement	Number of Samples	Minimum	Max	Average	Prescribed Concentration or Value
Tribromomethane-Bromoform (Total)	ug/l	1	3.07	3.07	3.070	100
Trichloroethene (Total)	ug/l	1	0.05	0.05	0.050	10
Trichloromethane-Chloroform (Total)	ug/l	1	0.3	0.3	0.300	300
Trihalomethanes (Total by Calculation)	ug/l	1	5.91	5.91	5.910	100

Metals

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Aluminium (Total)	ug/l Al	1	7.22	7.22	7.22	200
Antimony	ug/l Sb	1	0.04	0.04	0.0400	5
Arsenic (Total)	ug/l As	1	0.27	0.27	0.27	10
Cadmium (Total)	ug/l Cd	1	0.013	0.013	0.013	5
Chromium (Total)	ug/l Cr	1	0.47	0.47	0.47	50
Copper (Total)	mg/l Cu	1	0.0067	0.0067	0.0067	2
Iron (Total)	ug/l Fe	1	0.7	0.7	0.70	200
Lead (10)	ug/l Pb	1	0.17	0.17	0.17	10
Manganese (Total)	ug/l Mn	1	0.22	0.22	0.22	50
Mercury (Total)	ug/l Hg	1	0.03	0.03	0.030	1
Nickel (Total)	ug/l Ni	1	2.32	2.32	2.32	20
Selenium (Total)	ug/l Se	1	1.1	1.1	1.1	10

Organoleptic Parameters

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Odour (Quantitative)	Dilution Number	1	0	0	0	0
Taste(Quantitative)	Dilution Number	1	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
