Drinking Water Quality Report for North Milton Supply Zone ZAW0203

Areas covered by Report:	Brooklands, Milton Keynes and Great Billing, Northampton
Report Period:	01 January 2018 to 31 December 2018
Usptream Zone:	Anglian Water Northampton East WSZ (ZRW18) Anglian Water Newport Pagnell WSZ (ZMW21) Anglian Water Milton Keynes City North West WSZ (ZMW31) Anglian Water Milton Keynes City North East WSZ (ZMW28) Anglian Water Milton Keynes City South East WSZ (ZMW29) Anglian Water Leighton Linslade WSZ (ZMW38)
Population:	3452
Notices:	Undertaking IWN3466 in relation to Total Pesticides and Metaldehyde in the bulk supply provided. This scheme is progressing according to the action plan.

Commentary on Water Quality

The water supplied to the North Milton Zone originates from a surface water source that is chloraminated. 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 3 customer contacts concerning "appearance" and 1 customer contact relating to "other concern" during the period of this report. 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**	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**	4	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	0.046	0.078	0.062	**0.5**
Boron	**mg/l B**	4	0.09	0.11	0.10	**1**

Physio-Chemical Parameters Continued

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Bromate	**ug/l BrO3**	4	0.1	6.3	1.65	**10**
Chloride	**mg/l**	4	77.1	92.6	82.28	**250**
Colour	**mg/l Pt/Co**	4	1	1.6	1.15	**20**
Cyanide (Total)	**ug/l CN**	4	0.7	0.7	0.7	**50**
Electrical Conductivity	**uS/cm @ 20 C**	4	757	802	781.0	**2500**
Fluoride (Total)	**mg/l F**	4	0.25	0.27	0.265	**1.5**
Free Residual Chlorine	**mg/l**	12	0.08	0.51	0.262	**No Specific PCV**
Hydrogen ion	**pH value**	4	7.43	7.65	7.543	**6.5-9.5**
Nitrate (Total)	**mg/l NO3**	4	10.6	27.3	17.95	**50**
Nitrite - Consumer's Taps	**mg/l NO3**	4	0.005	0.199	0.0868	**0.5**
Nitrite/Nitrate formula	**No Units**	4	0.25	0.56	0.390	**1**
Sodium	**mg/l Na**	4	47.8	59.8	53.05	**200**
Sulphate	**mg/l SO4**	4	117	128	121.00	**250**
Total Residual Chlorine	**mg/l**	12	0.25	0.86	0.453	**No Specific PVC**
Turbidity (CT)	**FTU**	4	0.13	0.24	0.193	**4**

Hydrocarbons / Organics

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
1 1 1-Trichloroethane (Total)	**ug/l**	4	0.04	0.04	0.040	**0.1**
1 2-Dichloroethane (Total)	**ug/l**	4	0.07	0.07	0.070	**3**
Benzene (Total)	**ug/l**	4	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	0.00058	0.000535	**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**	4	4.38	6.29	5.613	**60**
ChloroDibromomethane (Total)	**ug/l**	4	9.41	12.22	11.218	**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	0.0060	**0.1**
Tetrachloroethene (Total)	**ug/l**	4	0.05	0.05	0.050	**10**
Tetrachloromethane (Total)	**ug/l**	4	0.02	0.02	0.020	**3**
Total Organic Carbon	**mg/l C**	4	3.5	4.8	4.125	**NO ABNORMAL CHANGE**
Total Trichloroethene & Tetrachloroethene (Total by Calculation)	**ug/l**	4	0	0	0	**100**

Hydrocarbons / Organics continued

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Tribromomethane-Bromoform (Total)	ug/l	4	5.78	7.68	6.845	100
Trichloroethene (Total)	ug/l	4	0.05	0.05	0.050	10
Trichloromethane-Chloroform (Total)	ug/l	4	1.53	2.48	2.015	300
Trihalomethanes (Total by Calculation)	ug/l	4	21.78	27.98	25.690	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	6.2175	200
Antimony	ug/l Sb	4	0.35	0.439	0.3955	5
Arsenic (Total)	ug/l As	4	0.5	1.08	0.8075	10
Cadmium (Total)	ug/l Cd	4	0.009	0.013	0.012	5
Chromium (Total)	ug/l Cr	4	0.17	0.46	0.295	50
Copper (Total)	mg/l Cu	4	0.0049	0.0511	0.020125	2
Iron (Total)	ug/l Fe	4	4.11	25.1	13.62	200
Lead (10)	ug/l Pb	4	0.04	0.19	0.1225	10
Manganese (Total)	ug/l Mn	4	0.14	0.25	0.21	50
Mercury (Total)	ug/l Hg	4	0.02	0.05	0.030	1
Nickel (Total)	ug/l Ni	4	2.73	4.55	3.34	20
Selenium (Total)	ug/l Se	4	0.16	1.93	1.015	10

Organoleptic Parameters

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