

## Water Quality Summary Report

<b>Period:</b>	<b>From</b>	1 <sup>st</sup> January 2020	<b>To</b>	31 <sup>st</sup> December 2020
<b>Zone Name:</b>	West Raynham, Norfolk			
<b>Zone Reference</b>	ZAAW01			

Parameter name	Units	Samples taken	< or >	Min	Mean	< or >	Max	Regulatory Limit or Range	No of Failures
Colour	mg/l Pt/Co	3	<	2.9	2.90	<	2.9	20	0
Turbidity	NTU	3	<	0.15	0.20		0.29	4	0
Odour	No.	3		0	0.00		0	1	0
Taste (Taste Quant)	No.	3		0	0.00		0	1	0
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	pH value	3		7.4	7.4		7.43	6.5(min) to 9.5(max)	0
Sulphate	mg/l SO4	3		27.8	29.4		31.7	250	0
Sodium (Total)	mg/l Na	3		15.6	16.2		16.9	200	0
Nitrate (Total)	mg/l NO3	3		29.4	35.4		43.3	50	0
Nitrite - Consumer's Taps	mg/l NO2	3	<	0.002	0.003	<	0.004	0.5	0
Nitrite/Nitrate formula	mg/l	3		0.59	0.71		0.87	1	0
Ammonium (Total)	mg/l NH4	3	<	0.0008	0.006	<	0.008	0.5	0
Total Organic Carbon	mg/l C	3	<	0.7	0.8		0.9	0	0
Aluminium (Total)	µg/l Al	3	<	6.9	11.9	<	14.4	200	0
Iron (Total)	µg/l Fe	3	<	5.23	5.38		5.69	200	0
Manganese (Total)	µg/l Mn	3	<	0.85	0.85	<	0.85	50	0
Copper (Total)	mg/l Cu	3		0.016	0.074		0.175	2	0
Fluoride (Total)	mg/l F	3		0.08	0.10		0.11	1.5	0
Arsenic (Total)	µg/l As	3		0.32	0.45		0.61	10	0
Cadmium (Total)	µg/l Cd	3	<	0.01	0.02	<	0.03	5	0
Cyanide (Total)	µg/l CN	3	<	5.5	5.8		6.5	50	0

Chromium (Total)	µg/l Cr	3	<	0.04	0.20		0.38	50	0
Mercury (Total)	µg/l Hg	3	<	0.06	0.06	<	0.06	1	0
Nickel (Total)	µg/l Ni	3		0.74	0.93		1.28	20	0
Lead (10)	µg/l Pb	3		0.05	0.08		0.13	10	0
Antimony	µg/l Sb	3	<	0.04	0.06	<	0.07	5	0
Selenium (Total)	µg/l Se	3		0.38	0.59		0.76	10	0
Pesticides (Total by Calculation)	µg/l	3		0	0		0	0.5	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	µg/l	3		0	0		0	0.1	0
Coliform Bacteria (Indicator)	No. /100ml	10		0	0		0	1	0
E.Coli (faecal coliforms Confirmed)	No. /100ml	10		0	0		0	1	0
Enterococci (Confirmed)	No. /100ml	3		0	0		0	1	0
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	No. /100ml	3		0	0		0	1	0
Colony Counts After 3 Days At 22øc (Colony Counts)	Count/ml at 22øc	3		0	0		0	0	0
Residual Disinfectant - Total	mg/l	10		0.35	0.55		0.70	0	0
Colony Counts After 48 Hours At 37øc (Colony Counts)	Count/ml at 37øc	3		0	0		1	0	0
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	3		570	603		623	2500	0
Chloride	mg/l C	3		40.4	53.6		69.2	250	0
Boron	mg/l B	3	<	0.032	0.034		0.036	1	0
Benzo[a]Pyrene (Total)	µg/l	3	<	0.0006	0.0006	<	0.0006	0.01	0
Tetrachloromethane (Total)	µg/l	3	<	0.13	0.13	<	0.13	3	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	µg/l	3		0	0		0	10	0
Trihalomethanes (Total by Calculation)	µg/l	3		9.02	10.95		11.97	100	0
1,2 Dichloroethane (Total)	µg/l	3	<	0.16	0.16	<	0.16	3	0
Benzene (Total)	µg/l	3	<	0.09	0.09	<	0.09	1	0
Bromate	µg/l BrO3	3	<	0.15	0.17		0.22	10	0
Atrazine (Total)	µg/l	3	<	0.004	0.004		0.004	0.1	0
Bentazone (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.1	0
Carbetamide	µg/l	3	<	0.008	0.008	<	0.008	0.1	0

Diuron (Total)	µg/l	3	<	0.009	0.009	<	0.009	0.1	0
Linuron (Total)	µg/l	3	<	0.012	0.012	<	0.012	0.1	0
Cyanazine	µg/l	3	<	0.006	0.006	<	0.006	0.1	0
Monuron	µg/l	3	<	0.007	0.007	<	0.007	0.1	0
Trietazine	µg/l	3	<	0.004	0.004	<	0.004	0.1	0

### Commentary on Water Quality

All the samples collected from this zone to date have complied with the Water Supply (Water Quality) Regulations 2016.

No Undertakings or Authorised Departures currently apply to this water supply zone.

### Additional Water Quality Information

The supply to this area is from ground water treated at Fring and Hillington Water Treatment Works. These works are owned and operated by Anglian Water. As part of the treatment process phosphate is dosed for plumbosolvency control.

Icosa Water take a bulk supply of water from Anglian Water with the connection point occurring in Anglian Water's Docking supply zone. This water is transported via Icosa Waters publicly regulated water supply network to supply the area around West Raynham Business Park.

### Water Hardness Information

<b>Hardness Classification</b>	Very Hard
<b>Calcium Carbonate (CaCO<sub>3</sub>)</b>	319 ppm
<b>Calcium</b>	128 ppm
<b>Degrees Clark</b>	22.3
<b>Degrees French</b>	31.9
<b>Degrees German</b>	17.9
<b>Millimoles per litre</b>	3.2