

Water Quality Summary Report

Period:	From	1 st January 2020	To	31 st December 2020
Zone Name:	Innsworth (Includes Twigworth, Gloucester)			
Zone Reference	ZBST01			

Parameter name	Units	Samples taken	< or >	Min	Mean	< or >	Max	Regulatory Limit or Range	No of Failures
Colour	mg/l Pt/Co	1	<	2.9	2.9	<	2.9	20	0
Turbidity	NTU	1		0.29	0.29		0.29	4	0
Odour	No.	1		0	0		0	1	0
Taste (Taste Quant)	No.	1		0	0		0	1	0
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	pH value	1		7.61	7.61		7.61	6.5(min) to 9.5(max)	0
Sulphate	mg/l SO4	1		68.2	68.2		68.2	250	0
Sodium (Total)	mg/l Na	1		30.6	30.6		30.6	200	0
Nitrate (Total)	mg/l NO3	1		24.8	24.8		24.8	50	0
Nitrite - Consumer's Taps	mg/l NO2	1	<	0.002	0.002	<	0.002	0.5	0
Nitrite/Nitrate formula	mg/l	1		0.5	0.5		0.5	1	0
Ammonium (Total)	mg/l NH4	1	<	0.008	0.008	<	0.008	0.5	0
Total Organic Carbon	mg/l C	1		2.9	2.9		2.9	0	0
Aluminium (Total)	µg/l Al	1	<	14.5	14.5	<	14.5	200	0
Iron (Total)	µg/l Fe	1		37.5	37.5		37.5	200	0
Manganese (Total)	µg/l Mn	1	<	0.85	0.85	<	0.85	50	0
Copper (Total)	mg/l Cu	1		0.0184	0.0184		0.0184	2	0
Fluoride (Total)	mg/l F	1		0.08	0.08		0.08	1.5	0
Arsenic (Total)	µg/l As	1		0.24	0.24		0.24	10	0
Cadmium (Total)	µg/l Cd	1	<	0.03	0.03	<	0.03	5	0
Cyanide (Total)	µg/l CN	1	<	5.5	5.5	<	5.5	50	0

Chromium (Total)	µg/l Cr	1	<	0.18	0.18	<	0.18	50	0
Mercury (Total)	µg/l Hg	1	<	0.06	0.06	<	0.06	1	0
Nickel (Total)	µg/l Ni	1		0.98	0.98		0.98	20	0
Lead (10)	µg/l Pb	1		0.13	0.13		0.13	10	0
Antimony	µg/l Sb	1		0.18	0.18		0.18	5	0
Selenium (Total)	µg/l Se	1	<	0.32	0.32	<	0.32	10	0
Pesticides (Total by Calculation)	µg/l	1		0.012	0.012		0.012	0.5	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	µg/l	1		0	0		0	0.1	0
Coliform Bacteria (Indicator)	No. /100ml	1		0	0		0	1	0
E.Coli (faecal coliforms Confirmed)	No. /100ml	1		0	0		0	1	0
Enterococci (Confirmed)	No. /100ml	1		0	0		0	1	0
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	No. /100ml	1		0	0		0	1	0
Colony Counts After 3 Days At 22øc (Colony Counts)	Count/ml at 22øc	1		4	4		4	0	0
Residual Disinfectant - Total	mg/l	1		0.36	0.36		0.36	0	0
Colony Counts After 48 Hours At 37øc (Colony Counts)	Count/ml at 37øc	1		1	1		1	0	0
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	1		445	445		445	2500	0
Chloride	mg/l C	1		36.4	36.4		36.4	250	0
Boron	mg/l B	1		0.0435	0.0435		0.0435	1	0
Benzo[a]Pyrene (Total)	µg/l	1	<	0.0006	0.0006	<	0.0006	0.01	0
Tetrachloromethane (Total)	µg/l	1	<	0.13	0.13	<	0.13	3	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	µg/l	1		0	0		0	10	0
Trihalomethanes (Total by Calculation)	µg/l	1		41.14	41.14		41.14	100	0
1,2 Dichloroethane (Total)	µg/l	1	<	0.16	0.16	<	0.16	3	0
Benzene (Total)	µg/l	1	<	0.09	0.09	<	0.09	1	0
Bromate	µg/l BrO3	1		1.1	1.1		1.1	10	0
Gross Alpha	Bq/l	1	<	0.019	0.019	<	0.019	0.1	0
Gross Beta	Bq/l	1		0.118	0.118		0.118	1.0	0
Tritium	Bq/l	1	<	5.6	5.6	<	5.6	10.0	0

Bentazone (Total)	µg/l	1	<	0.004	0.004	<	0.004	0.1	0
Fluroxypyr	µg/l	1	<	0.009	0.009	<	0.009	0.1	0
MCPP(Mecoprop) (Total)	µg/l	1	<	0.009	0.009	<	0.009	0.1	0
Propiconazole	µg/l	1	<	0.007	0.007	<	0.007	0.1	0
Propyzamide (Total)	µg/l	1	<	0.009	0.009	<	0.009	0.1	0
2,3,6-Tba	µg/l	1	<	0.01	0.01	<	0.01	0.1	0
Triclopyr (Total)	µg/l	1	<	0.028	0.028	<	0.028	0.1	0
Metazachlor	µg/l	1	<	0.006	0.006	<	0.006	0.1	0
Metaldehyde	µg/l	1	<	0.007	0.007	<	0.007	0.1	0
Quinmerac	µg/l	1		0.012	0.012		0.012	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 surface water treated at Mythe Water Treatment Works. These works are owned and operated by Severn Trent Water. As part of the treatment process phosphate is dosed for plumbosolvency control.

Icosa Water take a bulk supply of water from Severn Trent Water with the connection point occurring in Severn Trent Water's Gloucester South supply zone. This water is transported via Icosa Waters publicly regulated water supply network to supply the area around Whittle Gardens, Innsworth and Twigworth, Gloucester.

Water Hardness Information

Hardness Classification	Moderately Hard
Calcium Carbonate (CaCO₃)	178 ppm
Calcium	71 ppm
Degrees Clark	12.5
Degrees French	17.8
Degrees German	10.0
Millimoles per litre	1.8