

Data summary tables for Bristol Water (BRL)

These tables contain a summary of results of monitoring undertaken by the water company in 2019 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled *Drinking water 2019*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.gov.uk/>

Notes relating to the interpretation of the tables:

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

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Site Summary Data for Bristol Water Plc

Report Date Range: For the whole year 2019

Table BRL 1: Quality of water leaving service treatment works - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite (Total)	A013B	0.1 mg NO ₂ /l	133	0	< 0.002	0.00732	0
Totals:			133	0			

Table BRL 2: Quality of water leaving service treatment works - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	3,463	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	3,463	1	0	0	1
Totals:			6,926	1			

Table BRL 3: Quality of water leaving service treatment works - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	3,463	-n/a	0	4
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	2,608	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	3,471	-n/a	0.36	1.88
Residual Disinfectant - Total	C010	No abnormal change	3,471	-n/a	0.4172	1.9028
Turbidity - Indicator	A002A	1 NTU	3,471	2	0.08	0.39
Totals:			16,484	2		

Table BRL 4: Quality of water leaving service reservoirs - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	7,903	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	7,903	3	0	0	0
Totals:			15,806	3			

Table BRL 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	7,900	-n/a	0	67
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	5,887	-n/a	0	17
Residual Disinfectant - Free	C009	No abnormal change	7,904	-n/a	< 0.05	0.7795
Residual Disinfectant - Total	C010	No abnormal change	7,904	-n/a	0.14	0.87
Totals:			29,595	0		

Table BRL 6: Quality of water leaving bulk supply points - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
1 2-Dichloroethane (Total)	F001	3 µg/l	135	0	< 0.07	< 0.16	0
Benzene (Total)	F002	1 µg/l	135	0	< 0.02	< 0.09	0
Boron	D005A	1 mg B/l	135	0	< 0.0149	0.15292	0
Cyanide (Total)	B003	50 µg CN/l	120	0	< 0.7	< 5.5	0
Fluoride (Total)	A027	1.5 mg F/l	135	0	< 0.0272	0.41	0
Mercury (Total)	B005	1 µg Hg/l	134	0	< 0.03	< 0.06	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	135	0	0	0.067	0
Pesticides 2 4-D	P020	0.1 µg/l	41	0	< 0.003	< 0.012	0
Pesticides Asulam	P133	0.1 µg/l	41	0	< 0.002	< 0.008	0
Pesticides Atrazine	P004	0.1 µg/l	11	0	< 0.001	< 0.004	0
Pesticides Boscalid	P231	0.1 µg/l	70	0	< 0.002	< 0.011	0
Pesticides Bromoxynil	P008	0.1 µg/l	40	0	< 0.003	< 0.009	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	14	0	< 0.001	< 0.003	0
Pesticides Carbetamide	P010	0.1 µg/l	33	0	< 0.002	< 0.008	0
Pesticides Chlormequat	P163	0.1 µg/l	43	0	< 0.001	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	42	0	< 0.001	< 0.014	0
Pesticides Chlortoluron	P014	0.1 µg/l	2	0	< 0.003	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	74	0	< 0.003	0.025	0
Pesticides Cyproconazole	P207	0.1 µg/l	13	0	< 0.001	< 0.007	0
Pesticides Dicamba	P025	0.1 µg/l	9	0	< 0.003	< 0.012	0
Pesticides Diflufenican	P157	0.1 µg/l	12	0	< 0.002	< 0.007	0
Pesticides Diuron	P032	0.1 µg/l	11	0	< 0.002	< 0.009	0
Pesticides Epoxyconazole	P217	0.1 µg/l	43	0	< 0.001	< 0.005	0
Pesticides Flufenacet	P230	0.1 µg/l	42	0	< 0.002	< 0.008	0
Pesticides Fluroxypyr	P040	0.1 µg/l	43	0	< 0.003	< 0.009	0
Pesticides Flusilazole	P159	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Fluxapyroxad	P274	0.1 µg/l	51	0	< 0.002	< 0.009	0
Pesticides Glyphosate	P042	0.1 µg/l	119	0	< 0.002	0.06	0
Pesticides Isoproturon	P048	0.1 µg/l	33	0	< 0.001	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	2	0	< 0.007	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	43	0	< 0.003	< 0.012	0
Pesticides MCPB	P055	0.1 µg/l	8	0	< 0.004	< 0.018	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	21	0	< 0.002	< 0.009	0
Pesticides Metaldehyde	P226	0.1 µg/l	91	0	< 0.003	0.05	0
Pesticides Metazachlor	P203	0.1 µg/l	40	0	< 0.002	< 0.006	0
Pesticides Methiocarb	P056	0.1 µg/l	2	0	< 0.003	< 0.003	0

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Pesticides Pendimethalin	P118	0.1 µg/l	13	0	< 0.002	< 0.02	0
Pesticides Propiconazole	P068	0.1 µg/l	17	0	< 0.002	< 0.007	0
Pesticides Propyzamide	P071	0.1 µg/l	34	0	< 0.002	< 0.009	0
Pesticides Prosulfocarb	P243	0.1 µg/l	43	0	< 0.002	< 0.009	0
Pesticides Prothioconazole	P242	0.1 µg/l	43	0	< 0.00056	< 0.0057	0
Pesticides Quinmerac	P244	0.1 µg/l	33	0	< 0.001	< 0.006	0
Pesticides Simazine	P073	0.1 µg/l	42	0	< 0.001	< 0.004	0
Pesticides Spiroxamine	P239	0.1 µg/l	2	0	< 0.001	< 0.001	0
Pesticides Tebuconazole	P177	0.1 µg/l	43	0	< 0.001	< 0.005	0
Pesticides Triclopyr	P131	0.1 µg/l	43	0	< 0.003	< 0.028	0
Radon	F031	100 Bq/l	5	0	5.8	7.8	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	133	0	0.1	0.73	0
Totals:			2,377	0			

Table BRL 7: Quality of water leaving bulk supply points - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Tetrachloromethane (Total)	D008	3 µg/l	135	0	< 0.02	< 0.14	0
Totals:			135	0			

Table BRL 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Chloride	D002A	250 mg Cl/l	135	0	12.388	59.74
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	1,254	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm at 20°C	1,260	0	275.61	680.78
Gross Alpha	F004	0.1 Bq/l	24	0	< 0.022	0.09
Gross Beta	F005	1 Bq/l	24	0	0.059	0.108
Sulphate	A007	250 mg SO4/l	135	0	7.18	111.56
Total Organic Carbon	A017	No abnormal change	135	-n/a	0.4	3.264
Totals:			2,967	0		

Table BRL 9: Quality of water at consumer's tap (zones) - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
1 2-Dichloroethane (Total)	F001	3 µg/l	4	0	< 0.13	< 0.16	0
Antimony	B008A	5 µg Sb/l	221	0	0.0122	0.49	0
Arsenic (Total)	B001A	10 µg As/l	221	0	0.0522	3.923	0
Benzene (Total)	F002	1 µg/l	4	0	< 0.03	< 0.09	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	212	0	< 0.00022	< 0.00057	0
Boron	D005A	1 mg B/l	4	0	0.0165	< 0.0319	0
Bromate	F003	10 µg BrO3/l	220	0	< 0.1	5.579	0
Cadmium (Total)	B002	5 µg Cd/l	221	0	0.00222	0.69138	0
Chromium (Total)	B004	50 µg Cr/l	221	0	< 0.0222	0.6112	0
Copper (Total)	A024A	2 mg Cu/l	220	0	0.0005068	0.72709	0
Cyanide (Total)	B003	50 µg CN/l	3	0	< 5.5	< 5.5	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	3,097	0	0	0	0
Enterococci (Confirmed)	C003	0 number/100 ml	220	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	4	0	0.09	0.1	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	217	1	< 0.02	8.1592	1
Mercury (Total)	B005	1 µg Hg/l	4	0	< 0.03	< 0.06	0
Nickel (Total)	B006A	20 µg Ni/l	220	0	< 0.1089	13.4649	0
Nitrate (Total)	A012	50 mg NO3/l	220	0	0.9736	34.1029	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	220	0	< 0.002	0.006	0
Nitrite/Nitrate formula	A013C	1 mg/l	220	0	0.01984	0.6829	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	4	0	0	0	0
Pesticides 2 4-D	P020	0.1 µg/l	4	0	< 0.003	< 0.012	0
Pesticides 2 4-DB	P082	0.1 µg/l	3	0	< 0.004	< 0.018	0
Pesticides Alpha-HCH	P003	0.1 µg/l	4	0	< 0.001	< 0.005	0
Pesticides Atrazine	P004	0.1 µg/l	4	0	< 0.002	< 0.004	0
Pesticides Boscalid	P231	0.1 µg/l	4	0	< 0.004	< 0.011	0
Pesticides Carbetamide	P010	0.1 µg/l	4	0	< 0.003	< 0.008	0
Pesticides Chlormequat	P163	0.1 µg/l	4	0	< 0.001	< 0.003	0
Pesticides Chlorpyrifos (Chlorpyrifos Ethyl)	P017	0.1 µg/l	4	0	< 0.003	< 0.014	0
Pesticides Chlortoluron	P014	0.1 µg/l	4	0	< 0.002	< 0.007	0
Pesticides Clopyralid	P018	0.1 µg/l	4	0	< 0.003	< 0.015	0
Pesticides Dicamba	P025	0.1 µg/l	4	0	< 0.003	< 0.012	0
Pesticides Diuron	P032	0.1 µg/l	4	0	< 0.003	< 0.009	0
Pesticides Flufenacet	P230	0.1 µg/l	4	0	< 0.003	< 0.008	0
Pesticides Fluroxypyr	P040	0.1 µg/l	4	0	< 0.003	< 0.009	0
Pesticides Flutriafol	P039	0.1 µg/l	4	0	< 0.001	< 0.008	0

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	4	0	< 0.001	< 0.006	0
Pesticides Glyphosate	P042	0.1 µg/l	4	0	< 0.002	< 0.05	0
Pesticides Isoproturon	P048	0.1 µg/l	4	0	< 0.002	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	4	0	< 0.004	< 0.012	0
Pesticides MCPA 4-chloro-o-toloxoyacetic acid	P054	0.1 µg/l	4	0	< 0.003	< 0.012	0
Pesticides MCPB	P055	0.1 µg/l	4	0	< 0.004	< 0.018	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	4	0	< 0.002	< 0.009	0
Pesticides Metazachlor	P203	0.1 µg/l	4	0	< 0.002	< 0.006	0
Pesticides Methiocarb	P056	0.1 µg/l	4	0	< 0.003	< 0.008	0
Pesticides Prometryne	P070	0.1 µg/l	4	0	< 0.001	< 0.003	0
Pesticides Propazine	P066	0.1 µg/l	4	0	< 0.001	< 0.003	0
Pesticides Propyzamide	P071	0.1 µg/l	4	0	< 0.003	< 0.009	0
Pesticides Quinmerac	P244	0.1 µg/l	4	0	< 0.002	< 0.006	0
Pesticides Simazine	P073	0.1 µg/l	4	0	< 0.002	< 0.004	0
Pesticides Tri-allate	P079	0.1 µg/l	4	0	< 0.001	< 0.005	0
Pesticides Triclopyr	P131	0.1 µg/l	4	0	< 0.003	< 0.028	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	214	0	0	0.001	0
Selenium (Total)	B009	10 µg Se/l	221	0	0.0944	1.0456	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	4	0	0.22	0.71	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	219	0	2.96	56.694	0
Totals:			6,758	1			

Table BRL 10: Quality of water at consumer's tap (zones) - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Aluminium (Total)	A021	200 µg Al/l	1,032	0	< 3.21	42.27	0
Colour	A001	20 mg/l Pt/Co	1,036	0	< 1	< 2.9	0
Iron (Total)	A022	200 µg Fe/l	1,035	4	< 0.7	130.4	3
Manganese (Total)	A023	50 µg Mn/l	1,035	0	< 0.14	7.0076	0
Odour	A003	0 Dilution number at 25°C	1,074	1	0	0	1
Sodium (Total)	A009	200 mg Na/l	221	0	7.585	50.034	0
Taste (Taste Quant)	A004	0 Dilution number at 25°C	1,035	2	0	0	2
Tetrachloromethane (Total)	D008	3 µg/l	4	0	< 0.04	< 0.13	0
Turbidity	A002	4 NTU	1,035	0	0.09	0.61	0
Totals:			7,507	7			

Table BRL 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Total)	A014	0.5 mg NH ₄ /l	1,033	0	< 0.004	0.03366
Chloride	D002A	250 mg Cl/l	4	0	16.3	17.6
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	4	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	3,097	8	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	3,097	-n/a	0	105
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	2,307	-n/a	0	72
Conductivity (Electrical Conductivity)	D001	2500 µS/cm at 20°C	19	0	335	591
Gross Alpha	F004	0.1 Bq/l	4	0	< 0.019	< 0.021
Gross Beta	F005	1 Bq/l	4	0	0.033	0.046
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	1,035	0	7.16	7.88
Residual Disinfectant - Free	C009	No abnormal change	3,098	-n/a	< 0.05	0.78
Residual Disinfectant - Total	C010	No abnormal change	3,098	-n/a	0.16	0.92
Sulphate	A007	250 mg SO ₄ /l	4	0	16.9	24.4
Total Organic Carbon	A017	No abnormal change	4	-n/a	0.6	0.7
Tritium	F006	100 Bq/l	4	0	< 5.6	< 5.6
Totals:			16,812	8		