

Data Summary Tables for Bristol Water Plc (BRL)

These tables contain a summary of results of monitoring undertaken by the water company in 2007 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 2007'.

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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Data Summary (Q) for BRISTOL WATER PLC

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	A013B	0.1 mg NO ₂ /l	132	0	<0.002	0.04713	0
TOTAL	-	-	132	0	-	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	C001	0 number/100 ml	3199	0	0	0	0
Cryptosporidium	C111	Oocyst concentration / 10l	966	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	3199	0	0	0	0
TOTAL	-	-	7364	0	-	-	-

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	3199	N/A	<1	105
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	3199	N/A	<1	41
Residual Disinfectant - Free	C009	No abnormal change	3196	N/A	0.3	1.23
Residual Disinfectant - Total	C010	No abnormal change	3196	N/A	0.41	1.4703
Turbidity	A002A	1 NTU	3199	0	<0.05	0.16
TOTAL	-	-	15989	0	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	8747	2	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	8747	0	0	0	0
TOTAL	-	-	17494	2	-	-	-

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	8747	N/A	<1	69
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	8747	N/A	<1	22
Residual Disinfectant - Free	C009	No abnormal change	8747	N/A	<0.05	0.61
Residual Disinfectant - Total	C010	No abnormal change	8747	N/A	0.06	0.8
TOTAL	-	-	34988	0	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	F001	3 µg/l	132	0	<0.08	<0.08	0
Benzene	F002	1 µg/l	132	0	<0.06	<0.06	0
Boron	D005A	1 mg B/l	132	0	<0.017	0.18203	0
Cyanide	B003	50 µg CN/l	132	0	<0.4	1.3	0
Fluoride	A027	1.5 mg F/l	132	0	<0.009	0.46214	0
Mercury	B005	1 µg Hg/l	131	0	<0.012	0.03092	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	132	0	0.24	0.28	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	178	0	<0.002	<0.002	0
Pesticides (2,4-D)	P020	0.1 µg/l	178	0	<0.002	0.00642	0
Pesticides (Aldrin)	P002	0.03 µg/l	166	0	<0.001	<0.002	0
Pesticides (Asulam)	P133	0.1 µg/l	142	0	<0.005	<0.005	0
Pesticides (Atrazine)	P004	0.1 µg/l	178	0	<0.001	0.01021	0
Pesticides (Benazolin)	P138	0.1 µg/l	78	0	<0.002	<0.002	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	178	0	<0.002	<0.002	0
Pesticides (Carbendazim)	P150	0.1 µg/l	178	0	<0.002	<0.00326	0
Pesticides (Carbetamide)	P010	0.1 µg/l	31	0	<0.002	<0.006	0
Pesticides (Chlorothalonil)	P015	0.1 µg/l	178	0	<0.003	<0.003	0
Pesticides (Chlorpyrifos)	P017	0.1 µg/l	135	0	<0.003	<0.01	0
Pesticides (Chlortoluron)	P014	0.1 µg/l	178	0	<0.002	<0.004	0
Pesticides (Clopyralid)	P018	0.1 µg/l	178	0	<0.001	0.01342	0
Pesticides (Cyanazine)	P092	0.1 µg/l	31	0	<0.002	<0.005	0
Pesticides (Cypermethrin)	P094	0.1 µg/l	111	0	<0.003	<0.004	0
Pesticides (Diazinon)	P024	0.1 µg/l	167	0	<0.005	<0.01	0
Pesticides (Dieldrin)	P028	0.03 µg/l	178	0	<0.002	<0.002	0
Pesticides (Diuron)	P032	0.1 µg/l	178	0	<0.003	<0.003	0
Pesticides (Epoxyconazole)	P217	0.1 µg/l	64	0	<0.006	<0.008	0
Pesticides (Fenpropimorph)	P037	0.1 µg/l	178	0	<0.002	<0.00642	0
Pesticides (Fluroxypyr)	P040	0.1 µg/l	178	0	<0.002	<0.002	0
Pesticides (Flusilazole)	P159	0.1 µg/l	64	0	<0.004	<0.004	0
Pesticides (Flutriafol)	P039	0.1 µg/l	64	0	<0.002	<0.007	0
Pesticides (Gamma-HCH (Lindane))	P041	0.1 µg/l	87	0	<0.001	<0.002	0
Pesticides (Glyphosate)	P042	0.1 µg/l	172	0	<0.00719	<0.01016	0
Pesticides (Heptachlor)	P043	0.03 µg/l	178	0	<0.001	<0.002	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	178	0	<0.002	<0.002	0
Pesticides (Ioxynil)	P049	0.1 µg/l	51	0	<0.001	<0.001	0
Pesticides (Isoproturon)	P048	0.1 µg/l	178	0	<0.002	0.00905	0
Pesticides (Linuron)	P051	0.1 µg/l	178	0	<0.003	<0.01109	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Pesticides (MCPA)	P054	0.1 µg/l	142	0	<0.002	<0.002	0
Pesticides (MCP (Mecoprop))	P053	0.1 µg/l	178	0	<0.002	0.00363	0
Pesticides (Metaldehyde)	P226	0.1 µg/l	31	2	<0.008	0.209	1
Pesticides (Pendimethalin)	P118	0.1 µg/l	178	0	<0.003	<0.005	0
Pesticides (Propyzamide)	P071	0.1 µg/l	36	0	<0.002	<0.004	0
Pesticides (Simazine)	P073	0.1 µg/l	178	0	<0.001	0.00742	0
Pesticides (Tri-allate)	P079	0.1 µg/l	36	0	<0.001	<0.008	0
Pesticides (Trichlopyr)	P131	0.1 µg/l	160	0	<0.003	0.00739	0
Pesticides (Trifluralin)	P081	0.1 µg/l	178	0	<0.002	<0.002	0
Pesticides - Total Substances	B010	0.5 µg/l	179	0	0	0.1722	0
TOTAL	-	-	6430	2	-	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	D008	3 µg/l	132	0	<0.02	<0.04	0
TOTAL	-	-	132	0	-	-	-

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Chloride	D002A	250 mg Cl/l	132	0	14.9	58.954
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1228	0	0	0
Conductivity	D001	2500 µS/cm	1226	0	284.27	653.46
Radioactivity - Gross Alpha	F004	0.1 Bq/l	33	0	0.02	0.09
Radioactivity - Gross Beta	F005	1 Bq/l	33	0	0.04	0.1
Sulphate	A007	250 mg SO ₄ /l	132	0	11.999	120.67
Total Organic Carbon (TOC)	A017	No abnormal change	135	N/A	0.2772	3.1228
TOTAL	-	-	2919	0	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	F001	3 µg/l	9	0	<0.08	<0.08	0
Antimony	B008A	5 µg Sb/l	389	0	<0.1	0.4	0
Arsenic	B001A	10 µg As/l	389	0	<0.4	5.53	0
Benzene	F002	1 µg/l	9	0	<0.06	<0.06	0
Benzo (a) Pyrene	D007	0.01 µg/l	389	1	<0.001	<0.001	1
Boron	D005A	1 mg B/l	9	0	<0.017	0.05	0
Bromate	F003	10 µg BrO ₃ /l	389	0	<0.6	3.41	0
Cadmium	B002	5 µg Cd/l	389	0	<0.06	0.79	0
Chromium	B004	50 µg Cr/l	389	0	<0.7	2.5	0
Copper	A024A	2 mg Cu/l	389	0	<0.0027	0.3146	0
Cyanide	B003	50 µg CN/l	9	0	<0.4	<0.7	0
<i>E. coli</i>	C002	0 number/100 ml	2962	1	0	0	1
Enterococci	C003	0 number/100 ml	388	0	0	0	0
Fluoride	A027	1.5 mg F/l	9	0	<0.009	0.35	0
Lead	B007A	25 µg Pb/l	389	0	<0.5	11.1	0
Mercury	B005	1 µg Hg/l	9	0	<0.012	<0.012	0
Nickel	B006A	20 µg Ni/l	389	0	<0.9	8.82	0
Nitrate	A012	50 mg NO ₃ /l	389	0	0.77	37.59	0
Nitrite	A013A	0.5 mg NO ₂ /l	389	0	<0.002	0.0173	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	389	0	0.0173	0.7528	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	389	0	0	0.0033	0
Selenium	B009	10 µg Se/l	389	0	<0.2	1.31	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	9	0	0.24	0.28	0
Trihalomethanes (THMs)	D011	100 µg/l	388	0	4.1469	81.541	0
Pesticides (Aldrin)	P002	0.03 µg/l	9	0	<0.001	<0.001	0
Pesticides (Alpha-HCH)	P003	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides (Atrazine)	P004	0.1 µg/l	9	0	<0.001	0.011	0
Pesticides (Chlortoluron)	P014	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (Dicamba)	P025	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (Dieldrin)	P028	0.03 µg/l	9	0	<0.002	<0.002	0
Pesticides (Diuron)	P032	0.1 µg/l	9	0	<0.003	<0.003	0
Pesticides (Gamma-HCH (Lindane))	P041	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides (Heptachlor)	P043	0.03 µg/l	9	0	<0.001	<0.001	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	9	0	<0.002	<0.002	0
Pesticides (Isoproturon)	P048	0.1 µg/l	9	0	<0.004	<0.004	0
Pesticides (Linuron)	P051	0.1 µg/l	9	0	<0.003	<0.003	0
Pesticides (MCPA)	P054	0.1 µg/l	9	0	<0.002	<0.002	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Pesticides (MCPD(Mecoprop))	P053	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (Prometryn)	P070	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (Propazine)	P066	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides (Simazine)	P073	0.1 µg/l	9	0	<0.001	0.005	0
Pesticides (Tri-allate)	P079	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides - Total Substances	B010	0.5 µg/l	9	0	0	0.016	0
TOTAL	-	-	9418	2	-	-	-

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

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	A021	200 µg Al/l	1209	0	<11	25.9	0
Colour	A001	20 mg/l Pt/Co scale	1209	0	<0.4	1.6	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	1215	0	7.18	7.82	0
Iron	A022	200 µg Fe/l	1209	10	<7	176.8	7
Manganese	A023	50 µg Mn/l	1207	0	<1.5	11	0
Organoleptic Odour	A003	Dilution no. 3 at 25°C	657	0	0	0	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	657	0	0	0	0
Sodium	A009	200 mg Na/l	389	0	6.97	124.2	0
Tetrachloromethane	D008	3 µg/l	9	0	<0.02	<0.04	0
Turbidity	A002	4 NTUs	1204	0	<0.05	0.5865	0
TOTAL	-	-	8965	10	-	-	-

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

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	A014	0.5 mg NH ₄ /l	1207	0	<0.009	<0.021
Chloride	D002A	250 mg Cl/l	9	0	17.7	22
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	10	0	0	0
Coliform Bacteria	C001A	0 number/100 ml	2962	2	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	2963	N/A	<1	65
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	2963	N/A	<1	32
Conductivity	D001	2500 µS/cm	10	0	433	587
Hydrogen ion (pH)	A006A	9.5 pH Value	1215	0	7.18	7.82
Radioactivity - Gross Alpha	F004	0.1 Bq/l	9	0	<0.01	0.06
Radioactivity - Gross Beta	F005	1 Bq/l	9	0	0.02	0.1
Radioactivity - Tritium	F006	100 Bq/l	9	0	<1.7	<5
Residual Disinfectant - Free	C009	No abnormal change	2964	N/A	<0.05	0.6635
Residual Disinfectant - Total	C010	No abnormal change	2964	N/A	0.09	0.85
Sulphate	A007	250 mg SO ₄ /l	9	0	18.4	39.7
Total Organic Carbon (TOC)	A017	No abnormal change	9	N/A	0.75	1.44
TOTAL	-	-	17312	2	-	-