

SCHEDULE 3

Regulations 11, 12 and 16

**Requirements for spring water and drinking water
including prescribed concentrations or values of parameters**

PART I

Requirements for spring water and drinking water

1. Water satisfies the requirements of this Schedule if—
 - (a) the water does not contain any property, element, organism, or substance—
 - (i) (other than a parameter) at a concentration or value which would be injurious to health;
 - (ii) (whether or not a parameter) at a concentration or value which in conjunction with any other property, element, organism or substance it contains (whether or not a parameter) would be injurious to health;
 - (b) the water does not contain—
 - (i) concentrations or values of any of the parameters listed in Tables A to D in Part II in excess of the prescribed concentrations or values;
 - (ii) concentrations of trihalomethanes (being the aggregate of the concentrations of trichloromethane, dichlorobromomethane, dibromochloromethane and tribromomethane) in excess of 100 181 g/l; and
 - (c) in the case of water prepared from water which has been softened or desalinated, its hardness is not below a minimum concentration of 60 mg Ca/l and its alkalinity is not below a minimum concentration of 30 mg HCO₃/l.
2. The concentrations or values of the parameters listed in Tables A to D in Part II shall be read in conjunction with the notes thereto.

PART II

Prescribed Concentrations or Values

TABLE A

Column 1 <i>Item</i>	Column 2 <i>Parameters</i>	Column 3 <i>Units of Measurement</i>	Column 4 <i>Concentration or Value (maximum unless otherwise stated)</i>
1.	Colour	mg/l Pt/Co scale	20
2.	Turbidity (including suspended solids)	Formazin turbidity units	4
3.	Odour (including hydrogen sulphide)	Dilution number	3 at 25°C
4.	Taste	Dilution number	3 at 25°C

(i) Note (i) If silver is used in a water treatment process, 80 may be substituted for 10.

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Column 1 <i>Item</i>	Column 2 <i>Parameters</i>	Column 3 <i>Units of Measurement</i>	Column 4 <i>Concentration or Value (maximum unless otherwise stated)</i>
5.	Temperature	°C	25
6.	Sulphate	Mg SO ₄ /l	250
7.	Magnesium	Mg mg/1	50
8.	Sodium	Mg Na/1	150
9.	Potassium	Mg K/1	12
10.	Dry residues	mg/1	1500 (after drying at 180°C)
11.	Nitrate	Mg NO ₃ /1	50
12.	Nitrite	Mg NO ₂ /1	0.1
13.	Ammonium (ammonia and ammonium ions)	Mg NH ₄ /1	0.5
14.	Kjeldahl nitrogen	Mg N/1	1
15.	Oxidizability (permanganate value)	Mg O ₂ /1	5
16.	Total organic carbon	Mg C/1	No significant increase over that normally observed
17.	Dissolved or emulsified hydrocarbons (after extraction with petroleum ether); mineral oils	µg/1	10
18.	Phenols	µg C ₆ H ₅ OH/1	0.5
19.	Surfactants	µg/1 (as lauryl sulphate)	200
20.	Aluminium	µg Al/1	200
21.	Iron	µg Fe/1	200
22.	Manganese	µg Mn/1	50
23.	Copper	µg Cu/1	3000
24.	Zinc	µg Zn/1	5000
25.	Phosphorus	µg P/1	2200
26.	Fluoride	µg F/1	1500

(i) Note (i) If silver is used in a water treatment process, 80 may be substituted for 10.

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Column 1 <i>Item</i>	Column 2 <i>Parameters</i>	Column 3 <i>Units of Measurement</i>	Column 4 <i>Concentration or Value (maximum unless otherwise stated)</i>
27.	Silver	µg Ag/1	10 ⁽ⁱ⁾

(i) Note (i) If silver is used in a water treatment process, 80 may be substituted for 10.

TABLE B

Column 1 <i>Item</i>	Column 2 <i>Parameters</i>	Column 3 <i>Units of Measurement</i>	Column 4 <i>Maximum concentration</i>
1.	Arsenic	µg As/1	50
2.	Cadmium	µg Cd/1	5
3.	Cyanide	µg CN/1	50
4.	Chromium	µg Cr/1	50
5.	Mercury	µg Hg/1	1
6.	Nickel	µg Ni/1	50
7.	Selenium	µg Se/1	10
8.	Antimony	µg Sb/1	10
9.	Lead	µg Pb/1	10
10.	Pesticides and related products:		
	(a) (a) individual substances	µg/1	0.1
	(b) (b) total substances ⁽ⁱ⁾	µg/1	0.5
11.	Polycyclic aromatic Hydrocarbons ⁽ⁱⁱ⁾	µg/1	0.2

(i) Notes (i) The sum of the detected concentrations of individual substances.

(ii) Notes (ii) The sum of the detected concentrations of fluoranthene, benzo 3,4 fluoranthene, benzo 11.12 fluoranthene, benzo 3.4 pyrene, benzo 1.12 perylene and indeno (1, 2, 3-cd) pyrene.

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TABLE C

Column 1 <i>Item</i>	Column 2 <i>Parameters</i>	Column 3 <i>Units of Measurement</i>	Column 4 <i>Maximum Concentration</i>
1.	Total coliforms	number/100 ml	0
2.	Faecal coliforms	number/100 ml	0
3.	Faecal streptococci	number/100 ml	0
4.	Sulphite-reducing clostridia	number/20 ml	$\geq 1^{(i)}$
5.	Colony counts	number/1 ml at 22°C number/1 ml at 37°C	100 ⁽ⁱⁱ⁾ 20 ⁽ⁱⁱ⁾

(i) Notes (i) Analysis by multiple tube method.

(ii) Notes (ii) The total viable colony count should be measured within 12 hours of bottling with the sample water being kept at a constant temperature during that 12-hour period. Any increase in the total viable colony count of the water between 12 hours after bottling and the time of sale shall not be greater than that normally expected.

TABLE D

Column 1 <i>Item</i>	Column 2 <i>Parameters</i>	Column 3 <i>Units of Measurement</i>	Column 4 <i>Maximum Concentration or Value</i>
1.	Conductivity	$\mu\text{S}/\text{cm}$	1500 at 20°C
2.	Chloride	mg Cl/1	400
3.	Calcium	mg Ca/1	250
4.	Substances extractable in chloroform	mg/1 dry residue	1
5.	Boron	$\mu\text{g B}/1$	2000
6.	Barium	$\mu\text{g Ba}/1$	1000
7.	Benzo 3.4 pyrene	ng/1	10
8.	Tetrachloromethane	$\mu\text{g}/1$	3
9.	Trichloroethene	$\mu\text{g}/1$	30
10.	Tetrachloroethene	$\mu\text{g}/1$	10

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