

THE SCHEDULE

Regulation 4(1)

REQUIREMENTS OF DRINKING WATER INCLUDING
PRESCRIBED CONCENTRATIONS OR VALUES OF PARAMETERS

PART I:

REQUIREMENTS OF DRINKING WATER

Drinking water satisfies the requirements of this Schedule where—

1. the drinking water does not contain any property, element, organism or substance—
 - (a) (other than a parameter) at a concentration or value which would be injurious to health;
 - (b) (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;
2. the drinking water does not contain—
 - (a) concentrations or values of any of the parameters listed in Tables A to D in Part II of this Schedule in excess of the prescribed concentrations or values;
 - (b) concentrations of trihalomethanes (being the aggregate of the concentrations of trichloromethane, dichlorobromomethane, dibromochloromethane and tribromomethane) in excess of 100 µg/l;
3. in the case of drinking 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.

PART II:

PRESCRIBED CONCENTRATIONS OR VALUES

TABLE A

Column 1 Item	Column 2 Parameters	Column 3 Units of Measurement	Column 4 Concentration or Value (maximum unless otherwise stated)
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
5.	Temperature	°C	25

Note

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

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

Note

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

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TABLE B

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

Notes

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

TABLE C

Column 1 Item	Column 2 Parameters	Column 3 Units of Measurement	Column 4 Maximum Concentration
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	≤1 ⁽ⁱ⁾

Note

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

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Column 1 Item	Column 2 Parameters	Column 3 Units of Measurement	Column 4 Maximum Concentration
5.	Colony counts	number/1 ml at 22°C number/1 ml at 37°C	100 ⁽ⁱⁱ⁾ 20 ⁽ⁱⁱⁱ⁾

Note

(i) Analysis by multiple tube method.

(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 Item	Column 2 Parameters	Column 3 Units of Measurement	Column 4 Maximum Concentration or Value
1.	Conductivity	µS/cm	1500 at 20°C
2.	Chloride	mg Cl/l	400
3.	Calcium	mg Ca/l	250
4.	Substances extractable in chloroform	mg/l dry residue	1
5.	Boron	µg B/l	2000
6.	Barium	µg Ba/l	1000
7.	Benzo 3.4 pyrene	ng/l	10
8.	Tetrachloromethane	µg/l	3
9.	Trichloroethene	µg/l	30
10.	Tetrachloroethene	µg/l	10