

[<sup>F1</sup>SCHEDULE 3

METHODS OF ANALYSIS

**F1** Sch. 3 substituted (27.10.2017) by [The Public Water Supplies \(Scotland\) Amendment Regulations 2017 \(S.S.I. 2017/281\)](#), reg. 1(1), **sch. 2** (as amended by [The Public and Private Water Supplies \(Miscellaneous Amendments\) \(Scotland\) Regulations 2017 \(S.S.I. 2017/321\)](#), regs. 1, **3(3)(a)(b)**)

PART B

Chemical and indicator parameters

1.—(1) [<sup>F2</sup>For] a parameter in Table 1, the method of analysis used must, as a minimum, be capable of measuring concentrations equal to the prescribed concentration or value for the parameter with—

- (a) a limit of quantification of 30 % or less of the prescribed concentration or value for the parameter; and
- (b) an uncertainty of measurement as specified in Table 1 for the parameter.

(2) The result of the analysis for a parameter in Table B or Table C must be expressed using at least the same number of significant figures as the prescribed concentration or value for the parameter in the table.

**F2** Word in [sch. 3 Pt. B para. 1\(1\)](#) substituted (1.1.2023) by [The Public Water Supplies \(Scotland\) Amendment Regulations 2022 \(S.S.I. 2022/387\)](#), regs. 1(1), **18(4)(a)**

2. The uncertainty of measurement specified in Table 1 for a parameter must not be used as an additional tolerance to the prescribed concentration or value for the parameter.

<sup>F3</sup>3. ....

[<sup>F4</sup>Minimum performance characteristic: uncertainty of measurement

<i>Parameter</i>	<i>Uncertainty of measurement (% of prescribed concentration or value, except pH) (Note 1)</i>	<i>Notes</i>
Aluminium	25	
Ammonium	40	
Acrylamide	30	
Antimony	40	
Arsenic	30	
Benzo(a)pyrene	50	Note 2
Benzene	40	
Bisphenol A	50	
Boron	25	

**Changes to legislation:** There are currently no known outstanding effects for the The Public Water Supplies (Scotland) Regulations 2014, PART B. (See end of Document for details)

<b>Parameter</b>	<b>Uncertainty of measurement (% of prescribed concentration or value, except pH) (Note 1)</b>	<b>Notes</b>
Bromate	40	
Cadmium	25	
Chloride	15	
Chlorate	40	
Chlorite	40	
Chromium	30	
Conductivity	20	
Copper	25	
Cyanide	30	Note 3
1,2-dichloroethane	40	
Epichlorohydrin	30	
Fluoride	20	
HAAs	50	
Hydrogen ion concentration (in pH)	0.20	Note 4
Iron	30	
Lead	30	
Manganese	30	
Mercury	30	
Microcystin-LR	30	
Nickel	25	
Nitrate	15	
Nitrite	20	
Oxidisability	50	Note 5
Pesticides	30	Note 6
PFAS	50	
Polycyclic aromatic hydrocarbons	40	Note 7
Selenium	40	
Sodium	15	
Sulphate	15	
Tetrachloroethene	40	Note 8
Trichloroethene	40	Note 8

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<b>Parameter</b>	<b>Uncertainty of measurement (% of prescribed concentration or value, except pH) (Note 1)</b>	<b>Notes</b>
Trihalomethanes – total	40	Note 7
Total organic carbon	30	Note 9
Turbidity	30	Note 10
Uranium	30	
Vinyl chloride	50	

Notes—

Note 1: Uncertainty of measurement is a non-negative parameter characterising the dispersion of the quantity values being attributed to a measurand, based on the information used. The performance criterion for measurement uncertainty ( $k = 2$ ) is the percentage of the parametric value stated in the table or any stricter value. The uncertainty of measurement must be estimated at the level of the parametric value, unless otherwise specified.

Note 2: If the value of uncertainty of measurement cannot be met, the best available technique must be selected (up to 60%).

Note 3: The method determines total cyanide in all forms.

Note 4: The value for the uncertainty of measurement is expressed in pH units.

Note 5: Reference method European standard EN ISO 8467:1995 entitled “*Water quality - Determination of permanganate index (ISO 8467:1993)*”.

Note 6: The performance characteristics for individual pesticides are given as an indication. Values for the uncertainty of measurement as low as 30 % can be achieved for several pesticides, higher values up to 80% may be allowed for a number of pesticides.

Note 7: The performance characteristics apply to individual substances, specified at 25% of the prescribed concentration or value for the corresponding parameter in Table B.

Note 8: The performance characteristics apply to individual substances, specified at 50% of the prescribed concentration or value for the corresponding parameter in Table B.

Note 9: The uncertainty of measurement must be estimated at the level of 3 mg/l of the total organic carbon in accordance with European standard EN 1484:1997 entitled “*Water analysis - Guidelines for the determination of total organic carbon and dissolved organic carbon*”.

Note 10: The uncertainty of measurement must be estimated at the level of 1.0 nephelometric turbidity units in accordance with European standard EN ISO 7027-1:2016 entitled “*Water quality - Determination of turbidity - Part 1: Quantitative methods (ISO 7027-1:2016)*” or another equivalent standard method.]]

**F3** Sch. 3 Pt. B para. 3 omitted (1.1.2023) by virtue of The Public Water Supplies (Scotland) Amendment Regulations 2022 (S.S.I. 2022/387), regs. 1(1), **18(4)(b)**

**F4** Sch. 3 Pt. B Table and notes substituted for sch. 3 Pt. B Table 1, 2 and notes (1.1.2023) by The Public Water Supplies (Scotland) Amendment Regulations 2022 (S.S.I. 2022/387), reg. 1(1), **sch. 3**

**Changes to legislation:**

There are currently no known outstanding effects for the The Public Water Supplies (Scotland) Regulations 2014, PART B.