

SCHEDULE 3

Part IV

MONITORING

TABLE 1

PARAMETERS AND CIRCUMSTANCES FOR CHECK MONITORING

(1) <i>Item</i>	(2) <i>Parameter</i>	(3) <i>Circumstances</i>
1.	Aluminium	– When used as flocculant or where the water originates from, or is influenced by, surface waters
2.	Ammonium	
3.	<i>Clostridium perfringens</i> (including spores)	– Where the water originates from, or is influenced by, surface waters
4.	Coliform bacteria	
5.	Colony counts	
6.	Colour	
7.	Conductivity	
8.	<i>Escherichia coli</i> (<i>E. Coli</i>)	
9.	Hydrogen ion	
10.	Iron	– When used as flocculant or where the water originates from, or is influenced by, surface waters
11.	Manganese	– Where the water originates from, or is influenced by, surface waters
12.	Nitrate	– When chloramination is practised
13.	Nitrite	– When chloramination is practised
14.	Odour	
15.	Taste	
16.	Turbidity	

Status: This is the original version (as it was originally made).

TABLE 2
ANNUAL SAMPLING FREQUENCIES: WATER SUPPLY ZONES

<i>(1)</i> <i>Substances and parameters subject to check monitoring</i>	<i>(2)</i> <i>Estimated population of water supply zone</i>	<i>(3)</i> <i>Reduced</i>	<i>(4)</i> <i>Standard</i>
<i>E.Coli</i>	<100		4
Coliform bacteria	≥100		12 per 5000 population ⁽ⁱ⁾
Residual disinfectant			
Aluminium*			
Ammonium			
<i>Clostridium perfringes</i> (including spores) ^{*(i)}			
Colony counts	<100	1	2
Colour	100 – 4,999	2	4
Conductivity*	5,000 – 9,999	6	12
Hydrogen ion	10,000 – 29,999	12	24
Iron ⁺	30,000 – 49,999	18	36
Manganese ⁺	50,000 – 79,999	26	52
Nitrate ⁺	80,000 – 100,000	38	76
Nitrite ⁺			
Odour			
Taste			
Turbidity			
<i>Parameters subject to audit monitoring</i>			
Antimony			
Arsenic			
Benzene*			

Notes:

+ See regulation 6(2) and Table 1 in Schedule 3.

* Sampling for these parameters may be within water supply zones or at supply points as specified in Table 3, subject to notes (ii) and (iii) below.

(i) Where the population is not an exact multiple of 5000, the population figure should be rounded up to the nearest multiple of 5000.

(ii) Audit monitoring in water supply zones is required only where sodium hypochlorite is added after water has left the treatment works. In other circumstances, audit monitoring is required at supply points.

(iii) To monitor for total indicative dose (for radioactivity).

<i>(1)</i> <i>Substances and</i> <i>parameters subject to</i> <i>check monitoring</i>	<i>(2)</i> <i>Estimated population</i> <i>of water supply zone</i>	<i>(3)</i> <i>Reduced</i>	<i>(4)</i> <i>Standard</i>
Benzo(a)pyrene			
Boron*			
Bromate ^{(iii)*}			
Cadmium			
Chromium	<100		1
Copper	100 – 4,999		4
Cyanide*	5,000 – 100,000		8
1, 2 dichloroethane*			
Enterococci			
Flouride*			
Lead			
Mercury*			
Nickel			
Pesticides*			
PAH			
Selenium			
Sodium			
Trichloroethene/ Tetrachloroethene*			
Tetrachloromethane*	<100		1
THM	100 – 4,999		4
Chloride*	5,000 – 100,000		8
Sulphate*			
Total Organic Carbon*			
Tritium*			

Notes:

+ See regulation 6(2) and Table 1 in Schedule 3.

* Sampling for these parameters may be within water supply zones or at supply points as specified in Table 3, subject to notes (ii) and (iii) below.

(i) Where the population is not an exact multiple of 5000, the population figure should be rounded up to the nearest multiple of 5000.

(ii) Audit monitoring in water supply zones is required only where sodium hypochlorite is added after water has left the treatment works. In other circumstances, audit monitoring is required at supply points.

(iii) To monitor for total indicative dose (for radioactivity).

Status: This is the original version (as it was originally made).

(1) <i>Substances and parameters subject to check monitoring</i>	(2) <i>Estimated population of water supply zone</i>	(3) <i>Reduced</i>	(4) <i>Standard</i>
Gross alpha ^{(iii)*}			
Gross beta ^{(iii)*}			
<i>Notes:</i>			
+ See regulation 6(2) and Table 1 in Schedule 3.			
* Sampling for these parameters may be within water supply zones or at supply points as specified in Table 3, subject to notes (ii) and (iii) below.			
(i) Where the population is not an exact multiple of 5000, the population figure should be rounded up to the nearest multiple of 5000.			
(ii) Audit monitoring in water supply zones is required only where sodium hypochlorite is added after water has left the treatment works. In other circumstances, audit monitoring is required at supply points.			
(iii) To monitor for total indicative dose (for radioactivity).			

TABLE 3
ANNUAL SAMPLING FREQUENCIES: SUPPLY POINTS

(1) <i>Item</i>	(2) <i>Substances and parameters subject to check monitoring</i>	(3) <i>Volume of water supplied m³/d</i>	(4) <i>Reduced</i>	(5) <i>Standard</i>
1.	<i>Clostridium perfringens</i> (including spores) ⁽ⁱ⁾	<20		2
		20 – 999	2	4
2.	Conductivity	1,000 – 1,999	6	12
		2,000 – 5,999	12	24
		6,000 – 9,999	18	36
		10,000 – 15,999	26	52
		16,000 – 32,999	52	104
		33,000 – 49,999	78	156
		50,000 – 67,999	104	208
68,000 – 84,999	130	260		

Notes:

- (i) Check monitoring is required only in respect of surface waters (see regulation 6(2) and Table 1 in Schedule 3), otherwise audit monitoring.
- (ii) Audit monitoring at supply points is permitted only where sodium hypochlorite is not added after water has left the treatment works. In other circumstances, audit monitoring is required in water supply zones.
- (iii) To monitor for total indicative dose (for radioactivity).

(1) Item	(2) Substances and parameters subject to check monitoring	(3) Volume of water supplied m ³ /d	(4) Reduced	(5) Standard
		85,000 – 101,999	156	312
		102,000 – 119,999	183	365
		120,000 – 241,999	365	730
		242,000 – 484,999	730	1,460
		485,000 – 728,999	1,095	2,190
	<i>Parameters subject to audit monitoring</i>			
3.	Benzene			
4.	Boron			
5.	Bromate ⁽ⁱⁱ⁾			
6.	Cyanide			
7.	1,2 dichloroethane			
8.	Fluoride	<20		1
9.	Mercury	20 – 999		4
10.	Pesticides	1,000 – 49,999		8
11.	Trichloroethene/ Tetrachloroethene	50,000 – 89,999		12
		90,000 – 299,999		24
12.	Tetrachloromethane	300,000 – 649,999		36
13.	Chloride	≥650,000		48
14.	Sulphate			
15.	Total organic carbon			

Notes:

- (i) Check monitoring is required only in respect of surface waters (see regulation 6(2) and Table 1 in Schedule 3), otherwise audit monitoring.
- (ii) Audit monitoring at supply points is permitted only where sodium hypochlorite is not added after water has left the treatment works. In other circumstances, audit monitoring is required in water supply zones.
- (iii) To monitor for total indicative dose (for radioactivity).

Status: This is the original version (as it was originally made).

(1) Item	(2) Substances and parameters subject to check monitoring	(3) Volume of water supplied m3/d	(4) Reduced	(5) Standard
16.	Tritium			
17.	Gross alpha ⁽ⁱⁱⁱ⁾			
18.	Gross beta ⁽ⁱⁱⁱ⁾			

Notes:

- (i) Check monitoring is required only in respect of surface waters (see regulation 6(2) and Table 1 in Schedule 3), otherwise audit monitoring.
- (ii) Audit monitoring at supply points is permitted only where sodium hypochlorite is not added after water has left the treatment works. In other circumstances, audit monitoring is required in water supply zones.
- (iii) To monitor for total indicative dose (for radioactivity).

TABLE 4
ANNUAL SAMPLING FREQUENCIES: WATER TREATMENT WORKS

(1) Item	(2) Substances and parameters subject to check monitoring	(3) Volume of water supplied m3/d	(4) Reduced	(5) Standard
1.	<i>E. coli</i>	<20		4
2.	Coliform bacteria	20 – 1,999	12	52
3.	Colony counts	2,000 – 5,999	52	104
4.	Residual disinfectant	6,000 – 11,999	104	208
		≥12,000	104	365
5.	Nitrite ⁽ⁱ⁾	<20		2
6.	Turbidity	20 – 999	2	4
		1,000 – 1,999	6	12
		2,000 – 5,999	12	24
		6,000 – 9,999	18	36
		10,000 – 15,999	26	52
		16,000 – 32,999	52	104
		33,000 – 49,999	78	156
		50,000 – 67,999	104	208

Notes:

- (i) check monitoring at treatment works is required only when chloramination is practised. In other circumstances, audit monitoring is required.

Status: This is the original version (as it was originally made).

<i>(1) Item</i>	<i>(2) Substances and parameters subject to check monitoring</i>	<i>(3) Volume of water supplied m3/d</i>	<i>(4) Reduced</i>	<i>(5) Standard</i>
		68,000 – 84,999	130	260
		85,000 – 101,999	156	312
		102,000 – 119,999	183	365
		120,000 – 241,999	365	730
		242,000 – 484,999	730	1,460
		485,000 – 728,999	1,095	2,190
	<i>Substances and parameters subject to audit monitoring</i>			
7.	Nitrite ⁽ⁱ⁾	<20		1
		20 – 999		4
		1,000 – 49,999		8
		50,000 – 89,999		12
		90,000 – 299,999		24
		300,000 – 649,999		36
		>650,000		48

Notes:

- (i) check monitoring at treatment works is required only when chloramination is practised. In other circumstances, audit monitoring is required.