

**Microbiological safety requirements**

		95% Min	96% Min	99% Min	95% Min	96% Min	99% Min	Number of tests
1	E.coli	count/100ml	0	0	1	99.6	99.6	461

**Physical, organoleptic and chemical requirements**

		Class I	Class II	Compliance levels (%)		Number of tests	
				95% min to Class I	99% min to Class II		
<b>Chemical &amp; Physical properties</b>							
2	Colour	mg/L as Pt	20	50	100	100	471
3	Conductivity	mS/m	150	370	100	100	470
4	Odour	TON	5	10	100	100	30
5	pH	pH units	5.0 - 9.5	4.0 - 10.0	100	100	475
6	Taste	TTN	5	10	100	100	30
7	Turbidity	NTU	1	5	99.6	100	471
<b>Chemical requirements - macro-determinand</b>							
8	Ammonia	mg/L as N	1	2	100	100	29
9	Calcium	mg/L as Ca	150	300	100	100	19
10	Chloride	mg/L as Cl	200	600	100	100	29
11	Fluoride	mg/L as F	1	1.5	100	100	29
12	Magnesium	mg/L as Mg	70	100	100	100	19
13	Nitrate and nitrite	mg/L as N	10	20	100	100	29
14	Potassium	mg/L as K	50	100	100	100	19
15	Sodium	mg/L as Na	200	400	100	100	19
16	Sulphate	mg/L as SO4	400	600	100	100	29
17	Zinc	mg/L as Zn	5	10	100	100	19
<b>Chemical requirements - micro-determinand</b>							
18	Aluminium	mg/L as Al	0.3	0.5		100	19
19	Antimony	µg/L as Sb	10	50	100	100	19
20	Arsenic	µg/L as As	10	50	100	100	19
21	Cadmium	µg/L as Cd	5	10	100	100	19
22	Chromium	µg/L as Cr	100	500	100	100	19
23	Cobalt	µg/L as Co	500	1000	100	100	19
24	Copper	mg/L as Cu	1	2	100	100	19
25	Cyanide (Free)	µg/L as CN	50	70			
26	Iron	mg/L as Fe	0.2	2	100	100	19
27	Lead	µg/L as Pb	20	50	100	100	19
28	Manganese	mg/L as Mn	0.1	1	100	100	19
29	Mercury	µg/L as Hg	2	5	100	100	14
30	Nickel	µg/L as Ni	150	350	100	100	19
31	Selenium	µg/L as Se	20	50	100	100	19
32	Vanadium	µg/L as V	200	500	100	100	19
<b>Chemical requirements - organic determinands</b>							
33	Dissolved Organic Carbon	mg/L as C	10	20	100	100	14
34	Total Trihalomethanes	µg/L	200	300	100	100	0
35	Phenols as C6H5OH	µg/L	10	70			27

**Operational water quality alert values**

		Alert value	% within alert value	Number of tests
36	Turbidity	NTU	5	100
37	Residual chlorine	mg/L	<0.2	100
38	Heterotrophic Plate Count	count/mL	5000	100.0
39	Total coliforms	count/100 mL	10	97.6
40	Somatic coliphages	count/10 mL	1	
41	Cytopathogenic viruses	count/100 L	1	
42	Giardia	count/10 L	1	
43	Cryptosporidium	count/10 L	1	

**Other Determinands**

		Number of tests	
44	Alkalinity	mg/L as CaCO3	29
45	Nitrite	mg/l as L	29
46	Phosphate	mg/L as P	29