

**NATIONAL ENVIRONMENT MANAGEMENT ACT, 1994.**

**ENVIRONMENTAL QUALITY STANDARDS REGULATIONS, 1999.**

**IN EXERCISE** of the powers conferred on the Council by sections 28(2) and 63(1) of the National Environment Management Act, 1994 and on the recommendation of the Agency these Regulations are hereby made.

Citation

1. These Regulations may be cited as the Environmental Quality Standards Regulations, 1999.

Establishment of Environmental Quality Standards Board

2. (1) There is hereby established a Board to be known as the Environment Quality Standards Board which shall consist of

- (a) the Executive Director of the Agency;
- (b) the Principal Public Health Officer of the Department of State for Health;
- (c) the Environment Quality Programme officer I;
- (d) the Registrar of Pesticides and Hazardous Chemicals;
- (e) a chemist and a biologist from the Department of Water Resources;
- (f) a representative of the Gambia Chamber of Commerce and Industry;
- (g) a technical representative from industry.
- (h) the legal adviser to the Agency; and
- (i) a representative of the Department of State for Trade, Industry and Employment.

(2) The Executive Director of the Agency shall be the Chairman of the Board and in his absence the Deputy Executive Director or his delegate shall be chairman.

(3) The Environmental Quality Programme Officer I shall be the Secretary to the Board.

- Functions
3. The functions of the Board shall be -
- (a) to propose environmental quality standards to the Council and to review same periodically; and
  - (b) to carry out any other functions that may be delegated to it by the council.
- Meetings
4. (1) The Board shall meet at least twice a year.
- (2) The quorum at all meetings of the Board shall be seven.
- Environmental Quality Standards
5. (1) The environmental quality standards set out in schedule I shall apply in respect of ambient air, saline waters, surface fresh waters and groundwater.
- (2) The Agency shall ensure that the standards set out in Schedule I are maintained and shall take appropriate measures to ensure same.
- Environmental Monitoring
6. (1) The Agency shall monitor the standards set out in schedule I in accordance with the parameters and techniques set out in schedule II.
- (2) In monitoring the standards in accordance with subsection (1) the Agency shall make use of an appropriate laboratory or other institution having the required analytical capability.
- (3) The results of ambient environmental monitoring shall be made available to the Public on payment of a prescribed fee
- (4) Notwithstanding sub-regulation (3), a summary of the results of ambient environmental monitoring shall be provided in the National State of the Environment Report.

## **SCHEDULE I**

### **Air Quality Standards**

Parameter	Averaging Period	Air Quality Standard (Phase 1)
SO <sub>2</sub>	24hr	125 $\mu\text{gm}^{-3}$
	Year	50 $\mu\text{gm}^{-3}$
PM10	24hr	50 $\mu\text{gm}^{-3}$
NO <sub>2</sub>	Year	40 $\mu\text{gm}^{-3}$
Lead	Year	1 $\mu\text{gm}^{-3}$

### **Water Quality Standards for Saline Waters**

Parameter	Standard
<u>Physico-chemical Parameters</u>	
Dissolved Oxygen	>6 mg/l
pH	6.5 to 8.5
BOD	<5 mg Oxygen/l
COD	<10 mg Oxygen/l
<u>Anions</u>	
Nitrate	6 mg/l (as nitrogen)
Nitrite	0.2 mg/l (as nitrogen)
<u>Microbiological Parameters</u>	
Total coliforms	1000 per 100 ml
Faecal coliforms	300 per 100 ml

## Water Quality Standards for Surface Fresh Waters and Groundwater

Parameter	Surface Water Standard	Groundwater Standard
<u>Physico-chemical parameters</u>		
Dissolved Oxygen	>6 mg/l	n/a
pH	6.5 to 8.5	5.5 to 8.5
EC	1300 µS/cm	1300 µS/cm
Turbidity	<5 Nephelometric units	<5 Nephelometric units
Hardness	200mg/l (as calcium carbonate)	200mg/l (as calcium carbonate)
BOD	<5 mg Oxygen/l	<5 mg Oxygen/l
COD	<10 mg Oxygen/l	<10 mg Oxygen/l
<u>Anions</u>		
Nitrate	6 mg/l (as nitrogen)	10 mg/l (as nitrogen)
Nitrite	0.03 mg/l (as nitrogen)	0.03 mg/l (as nitrogen)
Chloride	250 mg/l (as chloride)	25 mg/l (as chloride)
Sulphate	25 mg/l (as sulphate)	25 mg/l (as sulphate)
Phosphate	0.4 mg/l (as phosphorus)	0.4 mg/l (as phosphorus)
Fluoride	n/a	1.5 mg/l
<u>Cations</u>		
Iron	0.3 mg/l	0.3 mg/l
Aluminium	0.2 mg/l	0.2 mg/l
Manganese	0.05 mg/l	0.05 mg/l
Ammonia	0.5 mg/l (as nitrogen)	0.5 mg/l (as nitrogen)
Sodium	150 mg/l	150 mg/l
Calcium	250 mg/l	250 mg/l
Chromium	0.05 mg/l	0.05 mg/l
Copper	3.0 mg/l	3.0 mg/l
Mercury	0.001 mg/l	0.001 mg/l
Cyanide	0.05 mg/l	0.05 mg/l
Lead	0.05 mg/l	0.05 mg/l
Magnesium	30 mg/l	30 mg/l
Potassium	10 mg/l	10 mg/l
<u>Microbiological Parameters</u>		
Total coliforms	1 to 10 per 100 ml	1 to 10 per 100 ml
Faecal coliforms	0 per 100 ml	0 per 100 ml
<u>Pesticides</u>		
Aldrin	10 ng/l	10 ng/l
Dieldrin	10 ng/l	10 ng/l
Endrin	5 ng/l	5 ng/l
Isodrin	5 ng/l	5 ng/l
Other individual substances	0.1 µg/l	0.1 µg/l
Total not to exceed	0.5 µg/l	0.5 µg/l

## SCHEDULE II

### Parameters for Water Quality Monitoring

	Saline Waters			Groundwater		Surface Freshwater
Location	Tourist Beaches	Offshore	Fishing Villages	Boreholes	Landfills	River Gambia
Number of sampling points	5	5	5	55	10	10
Sampling frequency (per year)	12	4	2	2	2	4
Physico-chemical parameters	Dissolved oxygen BOD COD pH Electrical conductivity Turbidity Oil film Salinity			BOD COD pH Electrical conductivity Turbidity Hardness		Dissolved oxygen BOD COD pH Electrical conductivity Turbidity Hardness Oil film
Anions	Nitrate Nitrite Sulphate Phosphate			Nitrate Nitrite Sulphate Phosphate Chloride Fluoride		Nitrate Nitrite Sulphate Phosphate Chloride
Cations	Manganese Ammonia Calcium			Manganese Ammonia Calcium Sodium Aluminium Magnesium Potassium Iron Mercury* Copper* Cyanide* Chromium* Lead*		Manganese Ammonia Calcium Sodium Aluminium Magnesium Potassium
Microbial parameters	Total coliforms Faecal coliforms			Total coliforms Faecal coliforms		Total coliforms Faecal coliforms

## Parameters and Techniques for Air Quality Monitoring

Parameter	Measurement Method	Frequency	Averaging Period	Locations
Fine particulates (PM10)	HiVol daily sampler	One day in Three	Daily	Two sites in Greater Banjul Area
Lead (Pb)	HiVol daily sampler	Once per month	Daily	Two sites in Greater Banjul Area
Nitrogen dioxide (NO <sub>2</sub> )	Diffusion tubes	Continuous	Monthly	Ten sites in Greater Banjul Area

\* Parameter to be monitored at 10 borehole sites only.

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MADE THIS DAY OF 1999.

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CHAIRMAN OF THE COUNCIL