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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 3097-1997

Sea water quality standard

海水水质标准

(English Translation)

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Foreword

This standard was formulated to implement "Environmental Protection Law of the People's Republic of China" and "Marine Environment Protection Law of the People's Republic of China", prevent and control seawater pollution, protect marine living resources and other marine resources, be in favor of sustainable use of marine resources, maintain ecological balance of marine, and guarantee human health.

This standard shall be implemented from July 1, 1998 and shall replace GB 3097-82 simultaneously.

This standard has the changes in the following contents and chapters.

- 3.1 (for classification of sea water quality, three classes are changed into four classes);
- 3.2 (supplement and adjust the pollutant items);
- 4.1 (add the specification on acquisition, storage, transportation and pretreatment of sea water quality monitoring sample);
- 4.2 (add analysis method of sea water quality).

This standard was proposed by the National Environmental Protection Agency and the National Bureau of Oceanography.

State Environment Protection Administration is responsible for the interpretation of this standard.

Sea Water Quality Standard

1 Subject Content and Standard Application Scope

This standard specifies the water quality requirements of every kind of application function in sea area.

This standard is applicable to the sea area governed by the People's Republic of China.

2 Normative References

The provisions involved in the following criteria are quoted in this standard to constitute the provisions of this standard, and have the same effect as this standard.

GB 12763.4-91 The Specification for Oceanographic Survey Observations of Chemical Parameters in Sea Water

HY 003-91 Code for Marine Monitoring

GB 12763.2-91 The Specification for Oceanographic Survey - Marine hydrographic observations

GB 7467-87 Water Quality - Determination of Chromium (VI) - Diphenylcarbazide Spectrophotometric Method

GB 7485-87 Water Quality - Determination of Total Arsenic - Silver Diethyldithiocarbamate Spectrophotometric Method

GB 11910-89 Water Quality - Determination of Nickel - Dimethylglyoxime Spectrophotometric Method

3.1 Classification of sea water quality

The sea water quality may be divided into four classes according to different application functions and protection objectives of sea area.

4.1 The acquisition, storage, transportation and pretreatment of sea water quality

monitoring sample shall be carried out according to the relevant specifications of GB 12763.4-91 and HY 003-91.

Appendix A

(Normative)

Calculation of Inorganic Nitrogen

The inorganic nitrogen is the sum of nitrate nitrogen, nitrite nitrogen and ammonia nitrogen, and inorganic nitrogen is also referred as "active nitrogen" or hereinafter referred to as "three nitrogen".

The concentration of nitrate, nitrite and nitrogen in water sample during current monitoring is the sum expressed with $\mu\text{mol/L}$. But this standard specifies inorganic nitrogen is calculated by nitrogen (N), and the unit shall be adopted with mg/L ; therefore, the inorganic nitrogen shall be calculated according to the following formula.

Appendix B

(Normative)

Conversion Method of Non-ionic Ammonia

The concentration of ammonia measured according to indophenol blue method and sodium hypobromite oxidation process (GB 12763.4-91) is deemed as the sum of non-ionic ammonia and ionic ammonia concentration, and the ratio of non-ionic ammonia in ammonia water solution has the relation with water temperature, pH value and salinity. The concentration of non-ionic ammonia may be converted according to the following formulae.

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