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

GB 17378.7-2007

**The specification for marine monitoring - Part 7: Ecological
survey for offshore pollution and biological monitoring**

海洋监测规范 第7部分: 近海污染生态调查和生物监测

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Foreword

All technical content in this section is mandatory. GB 17378 "marine monitoring" is divided

into seven parts.

- Part 1. General;
- Part 2. Data processing and analysis of quality control;
- Part 3. Sample collection, storage and transport;
- Part 4. Seawater analysis;
- Part 5. Sediment analysis;
- Part 6. Analysis of the organism;
- Part 7. Ecological survey of offshore pollution and biological monitoring. This section GB of Section 717 378, instead of GB 17378.7-1998 "specification for marine monitoring Part 7. Health and offshore pollution State survey and biological monitoring. " This section compared with GB 17378.7-1998 main changes are as follows:
 - Added "mariculture zone monitoring" (see Chapter 15);
 - Increases the recording sheet (see Appendix A);
 - The "pollution ecological survey methods commonly Commentary" Adjust informative annex (1998 edition Appendix A; Excerpts Appendix B);
 - Will be subject to "test animal culture conditions for broodstock spawning and larval stage of the" adjustment information appendix (1998 edition Appendix B; this Version of Appendix C);
 - Added "Vibrio detection
 - plate count method" (see Appendix D);

1 Scope

GB 17378.7-2007 is the Chinese national standard on the specification for marine monitoring - part 7: ecological survey for offshore pollution and biological monitoring, in the field of natural and applied sciences. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 18 October 2007 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2008. Classification: ICS 07.060, CCS A45. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB 17378 provisions of this part of the ecological survey of offshore pollution and biological monitoring of sample collection, laboratory analysis, data compilation methods Technical requirements. This section applies to biological survey of offshore pollution, monitoring and evaluation.

2 Normative references

The following documents contain provisions which, through reference in this Part of GB 17378, constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 3097-1997 water quality standards

GB/T 12763.4 oceanographic survey

GB 17378.1 marine monitoring Part 1. General

GB 17378.2 specification for marine monitoring Part 2. Data processing and quality control analysis

GB 17378.3 specification for marine monitoring Part 3. Sample collection, storage and transportation

GB 17378.4 specification for marine monitoring Part 4. Seawater Analysis

GB 17378.5 specification for marine monitoring Part 5. Sediment analysis

GB 17378.6 specification for marine monitoring Part 6. Analysis of the organism

GB 18668-2002 marine sediment quality

3 Terms and Definitions

The following terms and definitions apply to this part of GB 17378.

3.1 Small size suspended in the aqueous layer, no or only weak swimming ability to move with the flow of aquatic organisms.

3.2 Benthos of a class, not through 0.5mm aperture sieve benthic organisms.

3.3 Between individuals (5 ~ 10) mm plankton. Jellyfish, large copepods, krill, shrimp, tunicates, Chaetognatha, wing enough Molluscs and different mollusks and other collectively.

3.4 For some pollutants have a strong ability to endure or to a pollutant-sensitive species.

3.5 The organism is placed under the test conditions, influence of pollutants, then observed and measured biological abnormalities or death effects, including acute, sub Acute and chronic toxicity tests.

3.6 Toxicity testing solution was used as poison or sewerage saliva sample dilutions at various concentrations.

3.7 Degree (multiple) test solution diluted.

3.8 As a biological toxicity tests.

3.9 Biological test sample solution in direct contact with start and end time range.

3.10 In certain observation period, resulting in a 50% concentration of toxicant test biological death.

3.11 In certain observation period, resulting in 50% of the test organism to any abnormal reactions (such as avoidance, feeding rate and breathing rate change, the balance of mourning Loss, etc.) of toxicant concentration.

4 General Provisions

4.1 Ecological survey of coastal pollution Ecological survey content coastal pollution as follows:

- Plankton ecological survey;
- Large benthic ecological survey;
- Intertidal zone between biological and ecological investigations.

4.2 Biomonitoring Biomonitoring reads as follows:

- Chlorophyll a;
- Fecal coliform;
- Total number of bacteria;
- Toxicity test;
- Fish avoidance response test;
- Filter feeding rate determination;
- Red tide toxin paralytic shellfish poison detection. Selection and monitoring of projects

4.3 Survey Coastal pollution ecological surveys and monitoring of project selection should follow the following principles.

- Investigation and monitoring should be based on the purpose and nature of the task to consider the content of biological surveys and monitoring. Typically, at baseline