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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 17378.6-2007

Replacing GB 17378.6-1998

The specification for marine monitoring - Part 6: Organism analysis

海洋监测规范 第6部分: 生物体分析

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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 617 378, instead of GB 17378.6-1998 "marine monitoring Part 6. organism minutes Analysis. " This section compared with GB 17378.6-1998 main changes are as follows:

--- Measurement project, methods and detection limits adjusted to "informative appendix" (1998 edition Chapter 5; this edition of Appendix B);

--- Increasing the total mercury "atomic fluorescence assay" (see 5.1);

--- Cancel the total mercury "dithizone spectrophotometry" (1998 version 6.2);

--- Increased arsenic "atomic fluorescence assay" (see 11.1);

--- Modified flameless atomic copper, lead and cadmium absorption spectrophotometry, adjusted to "copper, lead and cadmium continuous assay" (1998 Edition of 7.1,8.1,9.1; this edition 6.1,7.1,8.1);

--- Canceled copper "diethyl dithiocarbamate spectrophotometry" (1998 edition 7.4);

1 Scope

GB 17378.6-2007 is the Chinese national standard on the specification for marine monitoring - part 6: organism analysis, 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.

This part of GB 17378 specifies the method for determination of marine organisms harmful substance residues mussels, shrimp and fish, and the samples were collected Collection, transportation, storage, pretreatment and measurement results of computing technical requirements. This section applies to marine life pollution investigation and monitoring of oceans, offshore and coastal waters.

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 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

3 Terms and Definitions

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

3.1 The solvent was evaporated to a small volume (0.2mL ~ 0.3mL), leaving the residue was moist state.

4.1 Collection and preparation of samples

4.1.1 Sample types Shellfish, shrimp and fish. Shellfish gathering R.philippinarum general, clams, corners clams, blue mussel, Perna viridis, clam, razor clam, oyster capuchin Oyster and so on.

4.1.2 Reagents

4.1.2.1 deionized or distilled water equivalent, the trace metal content should be below the detection limit of the analytical method, or were not contaminated seawater.

4.1.2.2 synthetic detergent.

4.1.3 instruments and equipment Instruments and equipment are as follows:

--- Plastic freezer. with ice packs. When mussels for storage and transportation, should have a bottom grid, to avoid sample is immersed in water;

---refrigerator;

--- Cryogenic refrigerator;

--- Plates and plastic ruler. for length measurement;

--- Plastic knives;

--- Glass or ceramic dish. Preparation of samples;

--- Tweezers. plastic products or other suitable materials;

--- High-density polyethylene bags and plastic containers. you Save for frozen samples, before loading the sample, the application of synthetic detergent wash with distilled water Wash;

--- Analytical balance. a sense of the amount of 0.1mg;

--- Plastic bottle;

--- Blade. for collecting samples;

4.1.4 Sampling and Transport

4.1.4.1 Preparations Cleaning freezers synthetic detergent (see 4.1.2.2), high density polyethylene bags, plastic sheeting and feet, large metal knives, scrapers, and then steamed Distilled water or seawater (see 4.1.2.1) rinse.

4.1.4.2 mussel samples collected Mussel samples collected by the cleaning blade from its attachments. Select a sufficient number of intact mussels stored in the freezer. For long-distance transport (hot days over 2h), should be filled in plastic sample mussels Barrel, the clean sea water collected at the scene showered on mussels, samples were kept wet state but can not be immersed in water. If the sample shall be carried out after 24h samples can be stored in the mussel-like high-density plastic bag, press out the air bag, tie the bag or Sealing, this bag and the sample labels together into a polyethylene bag and sealed, stored in cryogenic freezer.

4.1.4.3 sized shrimp and fish samples were collected Required to select a sufficient number