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

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**Technical Specifications for Environmental Monitoring in
Coastal Seas - Part 1: General Provisions
(English Translation)**

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1 Part, general rule

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1 General rules for the first part of technical specifications for environmental monitoring in coastal waters

1 Scope of application this standard specifies the preparation of implementation plans for environmental monitoring in coastal waters, the ships used for marine monitoring, and safety, quality assurance and the basic requirements of quality control. Environmental monitoring of coastal waters includes environmental quality of coastal waters (water quality, sediment, biomass Pollution, environmental impacts, environmental emergencies and special monitoring Measurement.

This standard is applicable to the environmental quality of coastal waters (water quality, sediments, biological quality, biological), rivers entering the sea, straight Sea pollution sources and impacts on the water environment of coastal waters, emergency environmental incidents and thematic monitoring plan formulation, work preparation, monitoring Ship testing and safety, quality assurance and quality control work.

2 Normative references

The content of this standard refers to the terms in the following documents. For undated references, the valid version is applicable to this standard.

GB 3097 sea water quality standard GB 3838 Environmental Quality Standard for Surface Water GB 8978 Integrated Wastewater Discharge Standard GB 17378.3 Marine Monitoring Specification Part 3: Sample Collection, Storage and Transportation GB 17378.4 Marine Monitoring Specification Part 4: Seawater Analysis GB 17378.5 Marine Monitoring Specification Part 5: Sediment Analysis GB 17378.6 Marine Monitoring Specification Part 6: Biological Analysis GB 17378.7 Marine Monitoring Specification Part 7: Offshore Pollution Ecological Investigation and Biological Monitoring GB 18421 Marine Life Quality Standard GB 18668 Marine sediment quality HJ/T 91 Technical specification for surface water and sewage monitoring HJ 91.1 Technical Specification for Wastewater Monitoring HJ/T 92 Technical Specification for Monitoring Total Discharge of Water Pollutants HJ 168 Technical Guidelines for the Preparation and Revision of Environmental Monitoring and Analysis Methods HJ 442.2 Technical Specification for Environmental Monitoring in Coastal Seas Part 2 Data Processing and Information Management HJ 442.3 Technical Specifications for Environmental Monitoring in Coastal Seas Part 3 Water Quality Monitoring in Coastal Seas HJ 442.4 Technical Specification for Environmental Monitoring in Coastal Seas Part 4 Monitoring of Sediment in Coastal Seas HJ 442.5 Technical Specification for Environmental Monitoring in Coastal Seas Part 5 Monitoring of Biological Quality in Coastal Seas HJ 442.6 Technical Specification for Environmental Monitoring in Coastal Seas Part 6 Biological Monitoring in Coastal Seas HJ 442.7 Technical Specifications for Environmental Monitoring in Coastal Seas Part 7 Monitoring of Rivers Entering the Sea HJ 442.8 Technical Specification for Environmental Monitoring in Coastal Seas Part VIII Direct discharge of sea pollution sources and impacts on the water environment of inshore seas

2 Environmental impact monitoring HJ 442.9 Technical Specification for Environmental Monitoring in Coastal Seas Part 9 Emergency and Special Monitoring in Coastal Seas HJ 442.10 Technical Specifications for Environmental Monitoring in Coastal Seas Part Ten Evaluation and Report HJ 589 Technical Specification for Emergency Monitoring of Environmental Emergency HJ 630 Technical Guidelines for Environmental Monitoring Quality Management HJ 730 Technical Specification for Layout of Environmental Monitoring Points in Coastal Waters

3 Terms and definitions

The following terms and definitions apply to this standard.

Offshore area or near-shore area Adjacent to the coast of mainland, islands, archipelago, etc., the territorial sea stipulated in the "Law of the People's Republic of China on Territorial Sea and Contiguous Zone" the sea area on the land side of the outer limit, and the coastal

sea area of the Bohai Sea is the sea area within 12 nautical miles of the coastal low tide line.

Sea-going rivers

Rivers, ditches and canals that enter the sea in accordance with GB 3838 or local environmental quality standards for surface water.

Pollution sources directly discharged into sea Land or marine pollution sources that directly discharge pollutants to the ocean through pipelines, ditches, canals and other sewage facilities, including industrial Sources, animal husbandry sources, domestic sources, centralized sewage treatment facilities, municipal sewage treatment plants, etc. Among them, the land area is directly discharged to the sea Contamination source refers to the direct discharge of sea pollution sources from the mainland or islands directly into the sea or the river into the sea into the sea monitoring section downstream.

Characteristic parameter Pollutants that affect the environmental quality of the sea area, hydrological dynamic elements that significantly change the coastline and seabed topography (such as ocean currents, Water depth) and ecologically sensitive target organisms.

Routine monitoring

A monitoring category to determine the environmental quality status and its change and development trend. With a long monitoring period, one Under the requirements of determining the monitoring capability conditions and evaluating the environmental quality and conditions of the coastal waters, the monitoring items, frequency and time are relatively consistent the monitoring work of the ecological environment shall be issued by the administrative department responsible for the monitoring and evaluation of the ecological environment.

Special subject monitoring the types of monitoring carried out to reflect the environmental conditions and environmental management needs of special areas and objects. Including inshore waters Environmental quality monitoring of environmental function areas, water quality monitoring of beaches, environmental impact monitoring of coastal engineering, and environmental monitoring of red tide-prone areas Test etc.

33.7

Emergency monitoring After a sudden environmental pollution damage event occurs, immediately implement the impact on the nature, intensity, and damage of the pollutants in the sea area where the incident occurred.

Short-term periodic monitoring of the scope of impact, duration of impact, and degree of resource damage. Timely and accurately grasp and report emergencies the pollution dynamics and impacts after the occurrence of environmental pollution damage incidents

shall provide a scientific basis for monitoring the after-treatment and environmental restoration.

Measurement.

Laboratory internal quality control Laboratory analysts and full-time quality control personnel aim to ensure the quality of monitoring data.

The process of quality control of the analysis process by means of inspection and calibration of equipment.

Laboratory external quality control Laboratory quality control organized and implemented by the lead unit of the monitoring network business or the technical responsible unit. Including laboratory energy Force verification, quality control procedures and operation inspection, external encryption code sample inspection, comparison and random testing, etc.

3.10

Blank

Corresponding to an experiment that does not contain the analyte (or does not contain the target analyte) using the same operation steps as the actual sample.

3.11

Whole program blank

In the water quality analysis, it is placed in the sample container and measured according to the same procedure as the actual sample.

Sample, referred to as full program blank. The so-called consistent procedure includes loading the sample bottle, transporting to the sampling site, and exposing to the site Environment, storage, preservation and all analysis steps, etc.

3.12

Laboratory blank

Samples such as pure water for laboratory use, which are measured according to the same analytical procedures as the actual samples.

4.1 Preparation requirements

4.1.1

The unit undertaking the environmental monitoring of the coastal waters shall, when formulating its work plan each year, be based on the supervision of the management department.

The requirements (plan or program), the environmental quality and emission standards