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

HJ 442.7-2020

Replacing HJ 442-2008

**Technical specifications for environmental monitoring in
coastal waters - Part 7: Monitoring of rivers entering the sea
(English Translation)**

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Marine Environmental Protection Law of the People's Republic of China, and the People's Republic of China Regulations of the People's Republic of China on the Prevention and Control of Land-Source Pollutants Pollution and Damage to the Marine Environment "Regulations on the Management of Environmental Pollution Damage to the Marine Environment" and the "Administrative Measures for Environmental Functional Zones in Coastal Sea Areas" to regulate the ecological environment Environmental quality monitoring, protect the ecological environment, and ensure the scientific, accurate, systematic, and feasible Comparability and representativeness, formulate this standard.

This standard was first published in 2008. The original standard drafting unit was China Environmental Monitoring Station and Zhoushan Ocean Ecological environment monitoring station. This is the first revision. The revised standard consists of the following ten parts.

Part One General Provisions Part Two. Data Processing and Information Management Part III Water Quality Monitoring of Inshore Waters Part Four. Monitoring of Sediment in Coastal Seas Part V Monitoring of Biological Quality in Coastal Waters Part VI Biological Monitoring in Inshore Waters Part VII Monitoring of rivers entering the sea Part 8: Monitoring of Direct Discharge of Sea Pollution Sources and Impact on the Water Environment of Inshore Waters Part IX Emergency and Special Monitoring in Coastal Waters Part 10 Evaluation and Report this standard, as the seventh part of the revised standard, is an added part of the revised standard, which stipulates the water quality samples of rivers entering the sea Methods and procedures for product collection, storage, transportation, field testing,

laboratory analysis, and quality control. The content of this section is local on the basis of the surface water monitoring requirements, the requirements for monitoring of rivers entering the sea are mainly specified, including.

- General requirements for monitoring of rivers entering the sea;
- Sample Collection;
- Analytical method;

From the date of implementation of this standard, the "Environmental Monitoring Specifications for Coastal Sea Areas" (HJ 442-2008) shall be abolished.

This standard was formulated by the Department of Ecological Environment Monitoring and the Department of Regulations and Standards of the Ministry of Ecology and Environment.

Drafting organizations of this standard. China Environmental Monitoring Station, Zhoushan Marine Ecological Environmental Monitoring Station of Zhejiang Province, Tianjin Ecological Environmental Monitoring Center, Dalian Ecological Environmental Monitoring Center of Liaoning Province.

This standard was approved by the Ministry of Ecology and Environment on December 16, 2020.

This standard will be implemented on March 1, 2021.

This standard is interpreted by the Ministry of Ecology and Environment.

1 Technical specifications for environmental monitoring in coastal waters

Part VII Monitoring of rivers entering the sea

1 Scope of application this standard specifies the point layout, sample collection, storage, transportation, and inspection of the environmental monitoring process of rivers entering the sea.

Technical requirements for field testing, laboratory analysis and quality control.

This standard is applicable to the monitoring of rivers entering the sea in the monitoring of coastal waters.

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 3838 Environmental Quality Standard for Surface Water GB 50179 River Flow Test Specification HJ/T 91 Technical specification for surface water and sewage monitoring HJ

168 Technical Guidelines for the Preparation and Revision of Environmental Monitoring and Analysis Methods HJ/T 372 Water Quality Automatic Sampler Technical Requirements and Testing Methods HJ 442.1 The general rules of the first part of the technical specifications for environmental monitoring in coastal waters HJ 442.3 Technical Specifications for Environmental Monitoring in Coastal Seas Part 3 Water Quality Monitoring in Coastal Seas HJ 442.10 Technical Specifications for Environmental Monitoring in Coastal Seas Part Ten Evaluation and Report 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.

Sea-going rivers

The rivers, ditches and canals that enter the sea that comply with GB 3838 or local environmental quality standards for surface water.

Tidal river

Rivers entering the sea affected by tides.

The entrance of rivers to sea the area where the river flows into the sea, including areas where fresh water and sea water are mixed.

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Sampling section transects when sampling the river, implement the entire profile of the water sample collection. Divide background section, control section, control section and cut Section etc.

Instantaneous water samples A single sample randomly (in terms of time and cross section) collected from the water discontinuously, generally at a certain time and place Points are taken randomly.

Automated sampling

The process of automatically collecting water samples continuously or intermittently through instruments and equipment according to a pre-programmed procedure.

Section of rivers entering the sea it is the nearest to the estuary of the river entering the sea, and surface water monitoring can be carried out to reflect and evaluate the river entering the sea.

Section of the water quality of the country.

Section of the river entering the administrative area the upper reaches of the river enter the administrative region boundary to reflect and evaluate the section of water quality when the water body enters the administrative region.

4.1.1 Frequency and time of monitoring

a) The sampling time for routine monitoring of the inbound section of the river entering the sea shall be implemented in accordance with the relevant requirements of HJ/T 91, and the monitoring frequency shall be one Generally, it is monitored once a month; if the section is not under national control or provincial control, it should be consistent with the environmental management requirements of the jurisdiction;

In special circumstances, or when a pollution accident occurs, follow the relevant requirements of emergency monitoring.

b) Sample collection for routine monitoring of sections of rivers entering the sea should be compared to the tide table, and samples should be collected at low plateau tides.

4.1.2 Monitoring items

a) Compulsory and selective testing items for the cross-section of rivers entering the sea shall be determined according to GB 3838 and evaluation requirements;

b) The items required for routine monitoring are the indicators in Table 1 of GB 3838, other inorganic nitrogen items and section related information, Including water temperature, salinity, turbidity, pH, conductivity, dissolved oxygen, permanganate index, biochemical oxygen demand, ammonia Nitrogen, petroleum, volatile phenol, mercury, lead, chemical oxygen demand, total nitrogen, total phosphorus, copper, zinc, fluoride, selenium, Arsenic, cadmium, hexavalent chromium, cyanide, anionic surfactant, sulfide, fecal coliform, nitrate nitrogen, Nitrite nitrogen, while measuring the depth of the sampling perpendicular and the width of the river monitoring section; the Yangtze River Estuary and the Pearl River Estuary the width of rivers and rivers can be processed by collecting relevant information.

c) Routine monitoring and selection items. sulfate, chloride, iron, manganese, silicate.

d) Collect data items. flow rate, flow rate.

3e) For emergency and special evaluation requirements, the monitoring items shall be determined according to the actual situation.

f) According to the monitoring results and the requirements of HJ 442.10, calculate the amount of pollutants entering the sea from rivers and the total amount of regional pollutants entering the sea.

Quantity and so on.

4.2.1 Principles of layout

The layout of the inflow section and the entry section of the river entering the sea shall be carried out in accordance with the relevant requirements of HJ 730. The section of the river entering the sea should be it can reflect the quality of the incoming sea; the monitoring