

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

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**Technical guideline for the development of water pollutant
discharge standards in watersheds
(English Translation)**

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Table of Contents

Foreword

1 Scope of application

2 Normative references

3 Terms and definitions

4 Basic principles

5 Technical Route

6 Determination of the main technical content

7 The main content of the standard text structure and compilation instructions

Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Water Pollution Prevention Law of the People's Republic of China, and the People's Republic of China the Marine Environmental Protection Law of the Republic of China protects and improves the quality of the water environment, regulates the formulation and revision of water pollutant discharge standards in the basin to develop this standard.

This standard specifies the basic principles, technical routes, and main technical content for the formulation of local river basin water pollutant discharge standards the determination of the standard, the cost-benefit analysis of the implementation of the standard, the structure of the standard text and the main content of the standard preparation description.

This standard is issued for the first time.

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

Drafting organization of this standard. Chinese Academy of Environmental Sciences.

This standard was approved by the Ministry of Ecology and Environment on May 21, 2020.

This standard will be implemented on July 1, 2020.

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

1 Technical Guidelines for the Development of Water Pollutant Discharge Standards in the Basin

1 Scope of application

This standard specifies the basic principles and technical routes for the formulation of water pollutant discharge standards for local river basins, as well as the determination of main technical content and standards.

The cost-benefit analysis of the quasi-implementation, as well as the requirements of the standard text structure and the main content of the standard preparation instructions.

This standard is applicable to the formulation and revision of water pollutant discharge standards for local river basins.

2 Normative references

The content of this standard refers to the following documents or their clauses. For undated reference documents, the effective version is applicable to this standard.

GB 3838 Environmental Quality Standard for Surface Water HJ 2.3 Technical Guidelines for Environmental Impact Assessment Surface Water Environment HJ 945.2 Technical Guidelines for the Establishment of National Water Pollutant Discharge Standards "Administrative Measures for the Establishment and Revision of National Environmental Protection Standards" (Guo Huan Gui Technology [2017] No. 1) "Technical Guidelines for the Compilation of Water Body Standard Schemes (Trial)" (Huanban Pollution Prevention Letter [2016] No. 563)

3 Terms and definitions

The following terms and definitions apply to this standard.

Environmental water bodies Rivers, lakes, canals, channels, reservoirs and other surface water bodies and sea water bodies within the territory of the People's Republic of China, and the people of China Other sea water bodies under the jurisdiction of the Republic.

Watersheds

The catchment area or range of the catchment area included in the surface water line.

Water pollutant discharge standards in order to improve environmental quality, combined with technical, economic conditions and environmental characteristics, the pollution source directly or indirectly discharged into the environmental water body Limits on the type, concentration and quantity of contaminants, as well as the limits set by other factors that cause harm to the environment, monitoring methods and monitoring methods, etc.

Regulatory requirements.

Water pollutant discharge standards in watersheds According to the water environment quality improvement needs of a specific basin, water pollutant discharge standards are

formulated for pollution sources within the basin.

Water environment protection target Drinking water source protection areas, drinking water intakes, wading nature reserves, scenic spots, important wetlands, key protections and treasures

2 Habitats of rare aquatic organisms, natural spawning grounds and feeding grounds for important aquatic organisms, wintering grounds and migration channels, natural fishing grounds and other fishery waters Body, and aquatic germplasm resource protection zone.

Permitted discharge quantity of pollutants of watershed Taking into account the ecological factors of the basin, the design hydrological conditions and the spatial distribution of sewage outlets, in order to achieve the goal of improving the water environment quality of the basin Standard, the maximum amount of pollutant load allowed in the basin.

Margin of safety

Consider the uncertain factors of the relationship between the pollution load and the water environment quality of the receiving water body, in order to ensure the improvement of the water environment quality of the receiving water body the amount of load reserved for safety.

4.1 Ecological safety priority principle

Guided by maintaining the ecological functions of the river basin and ensuring the ecological safety of the river basin, aiming at practical problems, we propose to compare the national water pollutant discharge standards Stricter emission control requirements.

4.2 Principle of technical and economic feasibility

Technological and economical demonstration of the emission limit proposed based on the demand for water environment quality improvement, and the technical route and economic cost for reaching the standard Feasibility Analysis. For pollution sources that are difficult to meet the standards, a phased implementation of emission control requirements can be proposed.

4.3 The principle of division and classification differentiation Distinguish different regions, comprehensively consider the characteristics of environmental water bodies, water environment quality improvement needs and the distribution characteristics of pollution sources, and discharge pollution sources Different water pollutants stipulate different emission control requirements such as strengthening protection, strict control and general control.

4.5 Systematic principles of comprehensive policy

Coordinate the promotion of pollution reduction and ecological capacity expansion. Analyze the environmental benefits expected to be achieved by implementing the water pollutant discharge standards in the river basin.

If the environmental benefits are not obvious, the focus is on non-point source emission reduction, protection of ecological flow, and adoption of water ecological environmental protection measures.

5 Technical route

5.1

The establishment and revision of water pollutant discharge standards for river basins shall carry out various stages of work in accordance with the requirements of the "Management Measures for the Establishment and Revision of National Environmental Protection Standards".

5.2

The main technical work content for the formulation and revision of water pollutant discharge standards in the river basin includes river basin survey, regional analysis and identification of environmental characteristic pollutants.

Classification, pollution source investigation and discharge characteristic pollutant identification, emission limit analysis based on water environment quality improvement goals, emission limit technology Economic demonstration and implementation plan design, environmental benefits of standard implementation and demand analysis of emission reduction and capacity increase, standard text and compilation instructions, etc., the technical route is shown in Figure 1.

46 Determination of main technical content

6.1 Basin investigation, regional analysis and identification of pollutants with environmental water features

6.1.1 The scope of the river basin is defined. The scope of the applicable area of the standard shall be clearly defined, and the area of the watershed area where the standard applies may be given in the form of an appendix

Figure with the name of the administrative area.

6.1.2 Environmental investigation and assessment of the river basin. Investigate the hydrology, water quality, catchment area, and sewage discharge of the river basin, main stream and tributary in the past five years for specific information, please refer to the relevant requirements in HJ 2.3 and the "Technical Guidelines for the Compilation of Water