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

GB/T 24002.2-2026

**Environmental management systems - Guidelines for using
GB/T 24001 to address environment aspects and conditions
within an environmental topic area - Part 2: Water**

环境管理体系 针对环境主题领域应用GB/T 24001管理环境因素和应对环境状况
的指南 第2部分：水

(English Translation)

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Foreword

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This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting is scheduled.

This document is based on GB/T 24002 "Environmental Management Systems - Application of GB/T 24001 Management of Environmental Aspects and Effects" in the context of environmental subjects.

Part 2 of the "Guidelines on Environmental Conditions". GB/T 24002 has published the following parts.

--Part 1: General Rules;

--Part 2: Water.

This document is equivalent to ISO 14002-2:2023, "Environmental management systems - Applying ISO 14001 to manage the environment - Environmental subject matter".

Factors and Responses to Environmental Conditions, Part 2: Water.

The following minimal editorial changes have been made to this document.

Guidelines for managing environmental aspects and responding to environmental conditions, Part 2: Water.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Environmental Management (SAC/TC 207).

0.1 Background

Water is a vital element supporting all life systems on Earth, and is essential for human life and well-being. Ecosystems and related organisms...

Diversity (considered natural capital) can only thrive if it is properly protected, resilient, and if economic and social activities respect the appropriate planetary boundaries.

Only under the premise of protecting water resources can their multiple values be realized and their natural services provided. Water resource protection is an important component of sustainable development.

Achieving the United Nations Sustainable Development Goals (SDGs) is crucial, especially SDG 6 (Clean Water and Sanitation) and SDG 14 (Life Under Water).

(and production), SDG 13 (climate action) and SDG 15 (terrestrial life).

Many organizations use the GB/T 24001 general framework to manage their interactions with the environment. GB/T 24002 helps those who wish to...

For organizations applying GB/T 24001 to a more focused range of environmental factors or combinations of specific environmental factors and conditions, specific requirements are provided.

The guidelines and examples for the subject matter. GB/T 24002 is proposed to consist of two parts.

--Part 1: General Rules. The purpose is to provide organizations with systematic guidelines based on GB/T 24001 for use in one or more environmental subject areas.

Provides general guidelines for the comprehensive management of environmental factors or for responding to changing environmental conditions.

--Part 2: Water. The purpose is to provide organizations with a framework for managing water-related environmental aspects and impacts based on GB/T 24001, and to address [the following issues].

It provides a general guide to the environmental conditions and related risks and opportunities.

This document is Part 2 of GB/T 24002.

This document focuses on the application of the GB/T 24001 framework to manage water-related environmental factors and impacts, respond to environmental conditions, and [other aspects].

This document provides guidance and examples of water-related environmental conditions and dependence on water resources that can impact organizations. It is helpful for organizations...

Planning for environmental impact, water dependence, and vulnerability throughout the lifecycle of its sites, watersheds, and products and services.

Measures. This includes strategic planning and measures taken in connection with the following.

--Protect aquatic ecosystems and ecosystem services, as well as related ecosystems (such

as forests) that contribute to water balance.

- Ensure the availability of water supply and water resources;
 - Minimize water use and reduce water consumption;
 - Protect and improve water quality;
 - Adapting to and responding to water-related environmental conditions, such as sea-level rise, changes in precipitation patterns, or gradual changes in water availability and quality.
- change;

This document is consistent with other standards concerning the sustainable use and protection of water. This document is based on GB/T 24002.1, and...

It follows the same method and order of terms as GB/T 24001, but does not cover all sub-terms.

0.2 Risk-based approach

This document covers water-related environmental aspects, impacts, status, and associated risks and opportunities, encompassing the organization's products and services.

The entire lifecycle of the service (where applicable). This document helps organizations address.

- The actual and potential adverse or beneficial impacts of the organization's activities or its supply chain on water and aquatic ecosystems;
- The actual and potential impacts on the organization itself, including the risks and opportunities associated with water resource dependence.

The potential impact on an organization may include both immediate and long-term real threats (e.g., flooding of the organization's location or disruption of the organization's water supply system).

Extreme events such as pollution accumulation), transitional risks and opportunities related to changes in regulations, technology, markets, or organizational reputation, and the life cycle an opportunity to contribute to sustainable development from a long-term perspective.

Water-related risks and opportunities are influenced by a variety of environmental factors (e.g., climate, geography, ecology, socioeconomics, organization's water footprint, applicable...).

The impact of compliance obligations includes.

- The organization faces vulnerabilities to water scarcity, water quality, ecosystem service changes, floods, and climate change;

- The condition or quality of the water bodies or aquatic ecosystems that the organization has affected, can affect, or depends on;
- Conflicts over water use or secure access to water resources are intensifying in specific areas;
- The condition of the infrastructure, including water supply systems, water distribution systems, and wastewater treatment.

0.3 Holistic Approach to Water Management

GB/T 24001 Environmental Management System requires organizations to assess their activities, products, and services to determine significant environmental impacts of the organization.

The environmental conditions and the associated risks and opportunities need to be addressed. This process requires a life-cycle perspective as part of the comprehensive assessment team.

Organizations planning to prioritize water in their environmental management efforts need to recognize the interrelationships between water and other environmental media and their ecosystems.

Relationships. Organizations need to be aware that the measures they plan and implement to improve water quality or water availability may have impacts on other environmental media such as soil and air.

This can negatively impact the environment or terrestrial ecosystems. For example, aeration tanks or ponds used for wastewater treatment may release volatile organic compounds (VOCs) into the air.

Organic compounds, and taking measures to enhance the biodegradability of trichloroethylene in contaminated groundwater, may lead to the formation of compounds such as chlorine.

Intermediate products or metabolites like ethylene pose a greater threat to ecosystems and humans. To avoid these unintended consequences...

As a result, this document encourages organizations to adopt a holistic approach when managing water.

Figure 1 shows a portion of how to fully apply the GB/T 24001 and GB/T 24002 series standards.

Figure 1. Interaction between the GB/T 24001 and GB/T 24002 series standards

0.4 Application of this document in the management of the water environment within the environmental management system Organizations can use this document to help