

HJ

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

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**Environmental protection technical requirement for
standardized construction of the centralized drinking water
sources**

**集中式饮用水水源地规范化建设环境保护技术要求
(English Translation)**

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Foreword

In order to implement the Environmental Protection Law of the People's Republic of China and the Law of the People's Republic of China on the Prevention and Control of Water Pollution, Water source to the construction of environmental protection, improve the drinking water source of environmental management level, to ensure water quality and safety, the development of this standard.

This standard stipulates the drinking water source water and water quality, drinking water source protection area construction and protection area renovation, monitoring ability, Risk prevention and control and emergency response capabilities, management measures and other environmental protection technical requirements.

This standard is the first release.

This standard is organized by the Ministry of Environmental Protection Science and Technology Standards Division.

The main drafting of this standard. China Environmental Science Research Institute.

This standard is approved by the Ministry of Environmental Protection on December 4, 2015.

This standard has been implemented since March 1, 2016.

This standard is explained by the Ministry of Environmental Protection.

Technical Requirements for Environmental Protection of Standardized Construction of Concentrated Drinking Water Source

1 Scope of application this standard specifies the drinking water source water and water quality, drinking water source protection area construction and renovation, monitoring capacity, risk Prevention and control and emergency response capabilities, management measures and other environmental protection technical requirements.

This standard applies to centralized drinking water sources (including in use, spare and planning) environmental protection standardization construction and supervision Management.

2 normative reference documents this standard refers to the terms of the following documents. For undated references, the latest edition of this document applies quasi.

GB 3838 Surface Water Environmental Quality Standard GB 5768 Road traffic signs and marking GB 5863 River Help sign GB/T 14848 Groundwater Quality Standard Code for construction of water conservation forest GB/T 26903 Technical specification for surface water and wastewater monitoring Technical specification for division of drinking water source protection area Technical Requirements for Signs of Drinking Water Source Protection Area HJ/T 433 Specification for Centralized Drinking Water Source Code for HJ 747 3 terms and definitions the following terms and definitions apply to this standard.

3.1 drinking water source to provide residents living and public service water intake and closely related land area.

3.2 centralized drinking water source Into the water pipe network to the user and have a certain size of water (water supply population is generally greater than 1000 people) in use, prepared Use and plan the water source. According to different water intake areas, centralized drinking water sources can be divided into surface water drinking water sources and land Water source of drinking water; depending on the type of water body where the water intake, surface water drinking water can be divided into river water Water source and lake, reservoir type drinking water source.

3.3 drinking water source protection area the state for the prevention and control of drinking water sources of pollution, to protect the water quality and delineation, and require special protection to a certain range of the waters and land. The drinking water source protection area is divided into primary and secondary protected areas, and quasi-protected areas can be designated if necessary.

3.4 risk source

May release toxic and hazardous substances to drinking water sources, resulting in

deterioration of the water quality of drinking water sources, including but not limited to industrial and mining enterprises, institutions and transportation of petrochemical, chemical products, such as pipeline sources; transport of dangerous chemicals, hazardous waste and other sources of vehicles, ships and other sources that affect the safety of drinking water sources; and may have an impact on the water quality of the water source no fixed pollution of the discharge point of livestock and poultry, aquaculture sewage and other non-point source.

3.5 flow flow path

Contaminants in a certain period of time with the water flow through the distance.

3.6 early warning monitoring in the specific monitoring section, select the specific indicators, the use of automatic (online) monitoring, water quality changes and the trend of risk prevention and control to provide a means of decision-making information.

3.7 video surveillance video monitoring the use of video (camera, monitor) and other facilities, sensitive or key areas of real-time monitoring of a measure.

Risk assessment

Due to drinking water sources where the area of pollution sources of abnormal emissions or natural processes of water quality, water may cause damage Bad environmental risk for quantitative assessment.

3.9 risk prevention and control Purposefully through the planning, organization, control, disposal and other activities to prevent the occurrence of risk events to reduce the degree of loss Measures.

Emergency response capability in order to cope with the sudden occurrence of environmental events in the water source, the ability to take temporary measures such as pollution control and management.

3.11 emergency protection facilities Emergency material reserves, emergency pools, control gates, barracks, diversion canals, water ditches and other emergency protection works and equipment of the general.

4 water quality water quality requirements

4.1 Water quantity

The actual water intake of groundwater drinking water is not greater than the annual design of water intake; surface water drinking water source water does not cause Ecological environment damage.

4.2 Water quality

4.2.1 Surface water drinking water sources Water quality at all levels of protected areas meet the requirements of GB 3838; lakes and reservoirs Water source Integrated nutrition

the state index TLI is no more than 60.

4.2.2 groundwater drinking water source water quality meet GB/T 14848 requirements.

Construction requirements for protected areas

5.1 Division of protected areas

5.1.1 According to HJ/T 338, combined with the actual situation of drinking water sources to delineate the drinking water source protection area.

5.1.2 Drinking water source protection area division plan approved and promulgated and implemented.

5.2 Protection zone flag settings

5.2.1 According to HJ/T 433, set the boundary markers, traffic warning signs and publicity cards and other signs, and the state intact.

5.2.2 The setting of roads and waterway warning signs in the protected area shall meet the requirements of GB 5768 and GB 5863.

5.3 isolation protection

5.3.1 Set up isolation protection facilities in areas where human activities are frequent around primary protected areas.

5.3.2 Surface water for road traffic through protected areas Drinking water sources and submerged groundwater drinking water sources, construction Anti-collision fence, accident diversion slot and emergency pool and other facilities.

5.3.3 through the protection zone of oil, gas pipeline to take anti-leakage measures, if necessary, set the accident diversion slot.

6 Requirements for remediation of protected areas 6.1 primary protected areas

6.1.1 There are no construction projects in the protected area that are not related to water supply facilities and protected water sources.

Head removed or closed, and as appropriate for ecological restoration.

6.1.2 There is no industrial or living outlet in the protected area. Before the protection zone is delineated, the industrial effluent port has been removed or closed the gap is closed or moved out.

6.1.3 There are no livestock and poultry breeding, cage culture, tourism, swimming, fishing or other activities that may contaminate water.

Before the demarcation of protected areas, livestock and poultry breeding, cage culture and tourism facilities are removed or closed.