

HJ

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Technical guidelines of soil and groundwater self-monitoring for industrial enterprises

工业企业土壤和地下水自行监测 技术指南（试行）

(English Translation)

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1 Scope of application

This standard specifies the general requirements for self-monitoring of soil and groundwater in industrial enterprises, formulation of monitoring plans, sample collection, preservation, circulation, Preparation and analysis, of monitoring results, quality assurance and quality control, preparation of monitoring reports, basic content and requirements of monitoring management.

This standard is applicable to the self-monitoring of soil and groundwater in industrial enterprises in key soil pollution supervision units. other industrial enterprises the self-monitoring of soil and groundwater can be implemented with reference to this standard.

For the monitoring of storage sites and landfills in key soil pollution supervision units, if the state has promulgated corresponding technical regulations, such regulations shall be followed.

2 Normative references

This standard refers to the following documents or clauses thereof. For dated references, only the dated version applies to this standard.

For undated references, the latest edition (including all amendments) applies to this standard.

GB 36600 Soil Environmental Quality Construction Land Soil Pollution Risk Control Standard (Trial) GB/T 14848 Groundwater Quality Standard GB/T 32722 Soil Quality Guidelines for long-term and short-term preservation of soil samples HJ 25.2 Technical Guidelines for Construction Land Soil Pollution Risk Control and Restoration Monitoring HJ 164 Technical Specification for Groundwater Environmental Monitoring HJ/T 166 Technical Specification for Soil Environment Monitoring HJ 610 Environmental Impact Assessment Technical Guidelines Groundwater Environment HJ 964 Environmental Impact Assessment Technical Guidelines Soil Environment (Trial) HJ 1019 Technical Guidelines for Sampling of Volatile Organic Compounds in Soil and Groundwater "Guidelines for the Investigation of Potential Soil Pollution in Key Supervision Units (Trial)" (Ministry of Ecology and Environment Announcement No. 1 [2021])

3 Terms and Definitions

The following terms and definitions apply to this standard.

self-monitoring

In order to grasp the impact of the production process on the soil and groundwater environment, industrial enterprises organize development activities in accordance with relevant laws, regulations and technical specifications.

regular monitoring activities of the exhibition.

key soil pollution supervision and management entity the competent department of ecological environment of the local people's government at or above the city level divided into districts shall, in accordance with the provisions of the competent department of ecological environment of the State Council, Discharge of harmful substances, etc., determine the units included in the list of key soil pollution supervision units in the administrative region.

key monitoring unit

According to the investigation, the enterprise believes that soil or groundwater pollution may be caused by leakage, loss, scattering, etc., and key sites that need to be monitored.

or key facilities and equipment.

Contaminants of concern Substances that are involved in the operation of key sites or key

facilities and equipment of the enterprise and may cause soil or groundwater pollution.

diving phreatic water Groundwater with a free surface above the first stable aquifer below the surface.

4.1 Develop a monitoring plan

Enterprises should conduct data collection, on-site surveys and personnel interviews to investigate all possible contamination of soil or groundwater in the enterprise.

Sites and facilities, identify them as key monitoring units, classify them, and formulate self-monitoring plans. The content of the monitoring program should include at least Including. monitoring points and layout, monitoring indicators and frequencies, proposed sample collection, preservation, circulation, preparation and analysis methods, quality assurance certification and quality control.

4.2 Construction and management of monitoring facilities

Enterprises should build and manage groundwater monitoring wells in accordance with the requirements of HJ 164 according to the monitoring points and monitoring indicators determined by the monitoring plan.

Groundwater monitoring wells should be built as long-term monitoring wells.

4.3 Implement the monitoring program

Enterprises should carry out regular monitoring activities on their own or entrust relevant institutions according to their own conditions and capabilities in accordance with the monitoring plan, and report the relevant content.

Included in the annual self-monitoring report of the enterprise and the annual implementation report of the pollutant discharge permit (only for enterprises that have issued a pollutant discharge permit).

4.4 Do a good job in monitoring quality assurance and quality control

Enterprises should establish a self-monitoring quality system, and do a good job in quality assurance and quality control in each link in accordance with the requirements of this standard and related technical specifications.

4.5 Reporting and Disclosure of Monitoring Data

Enterprises shall, in accordance with the requirements of relevant laws and regulations, report monitoring data to the competent department of ecological environment and disclose the monitoring results to the public.

5.1.1 Data collection

The data proposed to be collected mainly include basic information of the enterprise, production information, hydrogeological information, ecological environment management information, etc.

See Appendix A for a single list. The relevant information can be increased or decreased according to the actual situation.

5.1.2 Site survey

On-site inspections should be conducted to supplement and confirm the internal information of the enterprise to be monitored, and to verify the validity of the collected data. Control corporate flat cloth Set up maps, investigate the distribution of various sites and facilities and equipment, and verify their main functions, production processes and the toxic and hazardous substances involved. key point view Observe the ground hardening or other anti-seepage measures of the site and facilities and equipment, and determine whether there is any soil leakage caused by leakage, loss, scattering, etc.

or groundwater pollution.

5.1.3 Personnel interviews

When necessary, the information of the enterprise can be further supplemented and verified through personnel interviews. The interviewers can include the person in charge of the enterprise, familiar with the production of the enterprise the managers and employees of the activities, and the staff of the competent departments of the ecological environment, development and reform, industry and informatization of the enterprise are familiar with Local personnel, relevant industry experts, etc.

5.1.4 Identification and classification of key monitoring units

Analyze, evaluate and summarize the survey results from 5.1.1 to 5.1.3 of this standard, combined with According to the requirements of relevant technical specifications such as South (Trial)", check the key places and key facilities and equipment with potential soil pollution hazards in the enterprise, Sites or facilities and equipment that may cause soil or groundwater pollution through leakage, loss, scattering, etc. are identified as key monitoring units.

development of soil and groundwater monitoring.

Key sites or areas with dense distribution of key facilities and equipment can be uniformly divided into one key monitoring unit.

Then the upper area is not more than 6400 m².