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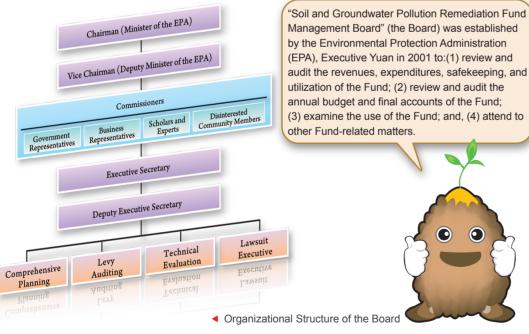
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# A Plot of Land Worth A Fortune?



### Do you know the guardian angel of land and groundwater in Taiwan?



### "Soil and Groundwater Pollution Remediation Act"

### Safeguarding the Land We Grow on

1981	1991	1996	1998	1999	2000	2003	2007	2010
Many soil pollution incidents occurred.	The Soil Pollution Prevention Act was drafted.	The draft bill was withdrawn from the Legislative Yuan for modification and amend- ment.	Remediation Act. (Draft)	for the last time Soil an	on Februar	The Act was amended on Jan. pursuan to the y. Administrativ Procedure A	submitted to the	was promulgate by the
						▲ Developr	ment of the A	ct

There have been many twists and turns in the path of developing the "Soil and Groundwater Pollution Remediation Act" (the Act). The "Soil Pollution Prevention Act" was first drafted in 1991. Considering the inseparability of soil and groundwater, groundwater pollution remediation was later incorporated into the bill that was renamed "Soil and Groundwater Pollution Remediation Act", promulgated and enforced on February 2000, and amended in 2010 in accordance with practical law enforcement needs.



According to the condition, the following measures will be taken when pollution occurs:

- Request for suspension of action, operations, or partial or complete suspension of work.
- Investigation of groundwater pollution status and accountability: restriction of use of the groundwater or other polluted water sources.
- Alternative drinking water supply.
- Erection of warning sign or fencing.
- Inspection of potentially contaminated agricultural and fishery products in conjunction with pertinent authorities.

Restrictions on crop cultivation or incineration of the polluted products are undertaken whenever necessary. Compensation for product loss is offered.

- Resident evacuation or activity restriction.
- Pollution removal or cleanup.
- Other necessary response measures.

### In Constant Pursuit of Six Objectives

The focus of soil and groundwater pollution remediation has gradually shifted from pollution verification to impact assessment, control, and remediation. However, prevention precedes remediation. The Board will work to enhance pollution prevention education and guidance to reduce pollution incidents.



Improve lega systems for pollution Broaden the **R&D** horizons of remediation practice and increase the executi efficiency of personnel

Actively conduct

remediation ad develo an equitable and reasonable fee collection system

Promote public awareness of pollution prevention and remediation **Policy** 

investigation and sessment of polluted sites to protect Enhance control citizen health and remediation of polluted sites to ensure sustainable land and aroundwater use

Objectives Establish a land redevelopment mechanism to increase economic incentives for remediation.

▲ Policy Objectives of the Board



### **Each fund is handled with discretion**

### in hope of making every dollar count.

Soil and Groundwater

Pollution Remediation Fund

Soil and groundwater remediation

Accrued interest of the Fund

Payments from polluters, potential polluters, or the interest parties of the polluted land

Payments from land developers

Funding from the central competent authority through the budget process

Partial appropriations from relevant environmental protection funds

Partial appropriations from criminal and administrative fines for environmental pollution

Other related revenues

▲ Eight Major Sources of the Fund

Derived from 8 sources, the Fund in the early years was mainly used in such aspects as the planning of relevant management systems, coordination, organizational establishment, formulation of regulations, as well as investigation and verification of potential pollutants. With the focus shifted to the status of polluted sites and

> impact on human and the environment, the Fund is redirected to works involving remediation priority ranking, necessary response measures, regulation, investigation and assessment, control, remediation, and supervision, and request for reimbursement from polluters pursuant to law.

## **Equity and Justice** -Remediation-Fee-Levying-

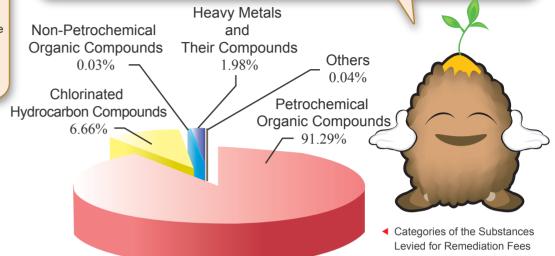
Soil and groundwater pollution remediation fees come from the following two sources:

I. Official budget

The budget is used to establish comprehensive prevention mechanisms for soil and groundwater pollution and to provide compensation for the loss of harvesting

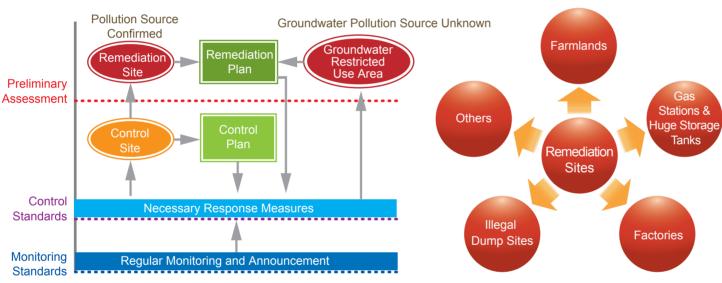
II. Fund budget

Soil and groundwater pollution remediation fees are currently levied on the manufacturer and importer of 125 chemicals in 6 categories in terms of the amount manufactured and imported.



### Effective Management of Polluted Sites

Control measures will be applied to contaminated lands in compliance with the Act: (1) Control site (2) Remediation site (3) Pollution control area (4) Polluted groundwater restricted use area



Polluted Site Determination Procedure

### Types of Listed Sites



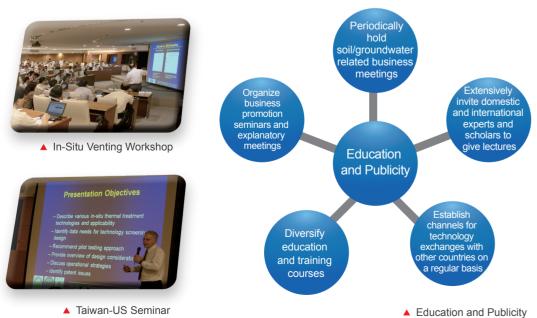






### Education and Publicity

Soil and groundwater pollution remediation works are complex and diverse in nature, requiring an integration of professional manpower in such areas as environment, civil engineering, chemistry, biology, agriculture, geology, water resources, law as well as information. Local environmental personnel are invited to discuss work facilitation for policy execution. Moreover, efforts have been made among industry, government, and academia to hold lectures, workshops, seminars, and conferences to enhance professional literacy of domestic personnel, and to establish a professional engineer certification system to ensure the quality of relevant documents in relation to investigation, assessment, and remediation.



Different from traditional practices, the Board extends education and training to college and university students in addition to industry, government, and academic bodies. Apart from general courses laboratory operations and site visits are arranged to allow trainees to achieve a deep understanding of the issue of site remediation. Diverse contests and events are designed and held for different age groups in a bid to provide environmental education through entertainment.

## **Future Prospects**

In accordance with the Act, the Board will continue to work toward pollution prevention, site investigation, pollution remediation, and land rehabilitation for contaminated sites while strengthening educational training and publicity for a greater public understanding of soil and groundwater pollution remediation work.





Soil and Groundwater Pollution Remediation Web http://sgw.epa.gov.tw/public/