

Data Source: Soil and Groundwater Pollution Remediation Web of Taiwan

<http://sgw.epa.gov.tw/public/En/index.htm>

Remediation Sites→7.1 Introduction of Various Pollution in Taiwan→5

Factory Area Pollution

Pollution caused in soil and groundwater may be due to production, raw material storage, improper production and waste treatment. Pollution sites may be the plant which has been shutdown, but without proper closure or with an illegal dumping site. The cadmium rice instance occurred in Taoyuan County, 1984, and was the first instance of industrial waste water discharge into farmland. In 1994, the RCA plant site in Taoyuan County polluted soil and groundwater due to improper waste treatment. These instances all affect soil, groundwater, and crops, and endanger residents' health.

The EPA required local government to report to them the information about illegal dumping sites began in 1987. Totally there were 170 sites reported through the north, central and south regions. The EPA entrusted a consulting company to study the polluted sites by American EPA's HRS system. Starting at 1999, EPA executive "Environmental Impact Assessment on the Illegal Dumping Site Nationwide". This project completed initial impact assessment and classification. The 15 sites that were classified as bearing immediate dangers to human health are under remediation process. There are only 4 sites still under assessment process. The EPA selected 15 illegal dumping sites to carry the groundwater pollution survey in 2002. Through the surveying, the EPA understands the existing condition in the illegal dumping sites and has drafted remediation proposal for the illegal dumping sites, which bears potential for pollution. In 2004, EPA investigates the illegal dumping site pollution condition in soil and groundwater and will develop a strategy for future remediation.

The Survey Result for Soil and Groundwater Pollution in the Plant Site

Other than farmland, gas station, oil storage tank, and illegal dumping site, the EPA also surveyed sites that were being reported by the public as pollution occurring site. For example, RCA plant in Taoyuan County, illegal dumping in Renhe Village, Jiangjyun Township, pollution instances involving Shingjia Industry CO.LTD, Yulin electroplating plant, and Fude Temple in Daliao Township. They are all instances being reported by the public and the EPA listed them as pollution control sites.

Heavy metal pollution is the common type found in soil, phenols and Trichloroethylene are the common types found in groundwater pollution.

Factory Pollution Site Survey and Treatment Photos

Polluted Soil



Digging out the soil



Surface cleaning and range defining



Digging out by tractor



Factory Pollution Site Survey and Treatment Photos

Temporary Storage Area for Soil Curettage



Carbon Adoption Treatment



Post sign of "Fishing is prohibited in this area."

Publicize the pollution control site and only authorized personnel can enter the area.



Factory Pollution Site Control and Treatment Photos

Sampling in the Digging Area



Back-fill of the Remediation Area



Polluted Soil Temporary Storage Area



Heating & Pollutant Fall-Off Treatment



Photo Sources: Taiwan EPA and Each Local Environmental Protection Bureau