

Abstract

The study to distribution of cadmium in paddy field at landfills site of Nonthaburi provincial and Suphanburi province was carried in 2004-2005. Soils, water and plants were analyzed to examine the cadmium. The soil samples had been taken 2 levels for the example 0-5 cm. and 5-10 cm. of paddy field at landfill site of Suphanburi and the result showed 0.12-1.40 and 0.08-1.56 mg/kg of cadmium, respectively. However, the cadmium contaminate in water were 0.014-0.0031 mg/L. Cadmium contaminate in roots, shoots and rice seed at of Supanburi were 0.023-0.045, 0.014-0.059 and 0.006-0.019 mg/kg, respectively. Cadmium contaminate in soil samples of Nonthaburi landfill site and the result showed 0.13-1.71 and 0.11-1.84 mg/kg, respectively. However, the cadmium contaminate in water were 0.009-0.081 mg/L. Cadmium contaminate in roots, shoots and rice seed at Nonthaburi were 0.023-0.045, 0.014-0.059 and 0.006-0.019 mg/kg, respectively.

The result showed that cadmium contaminates in soils, water and plant (rice) samples were not found over the standard in both of two landfill sites. However the government off should be awareness and monitoring for cadmium application from landfill because the result show the contaminate in the environment. This suggestion do not make the high concern of the people but we need the people to involve with the cadmium contaminate to the paddy field.