

Hatairat Boonpradub 2011: Environmental Impact Values of Opened Dumping Solid Waste in Phra Nakhon Si Ayutthaya Municipality. Master of Science (Resource Management), Major Field: Resource Management, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Vute Wangwatcharakul, Ph.D. 118 pages.

Failure to find a new solid waste landfill areas is a main reason that Phra Nakhon Si Ayutthaya Municipality to dumped solid waste on the landfill disposed. Opened dumping is an insanitary disposal and causing environmental impacts in the vicinity. This study aims to evaluating the economic damages of opened dumping solid waste of the Municipality on paddy production and the communities around the site.

The productivity change approach is used to evaluate the environmental impacts on paddy production while the contingent valuation approach or willingness to accept compensation method is applied to assess the impact on the communities.

The results of the study show that in crop year 2008/2009 waste water from the solid waste destroyed around 363 rai of rice field causing a total damage cost of about 3.2 million baht. Smoke, fire, and other nuisances affected the health of the community members with a total damage of about 2.4 million baht. Therefore, the overall environmental impacts of Phra Nakhon Si Ayutthaya Municipality opened dumping solid waste disposal in the year 2008 was about 5.6 million baht. These damages are part of social cost generated from the delay in getting new sanitary landfill site and should be taken into account in solid waste management decision making process of the municipality. In addition, the study also found that most of the community members were not willing to or could not estimate their willingness to be compensated. This suggests the needs to enhance public relation and seek.

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Thesis Advisor's signature