

Panadda Glomaeing 2007: Principle of Land Use Planning for Industrial Area Regarding the Conservation of Mangrove Ecosystem: Case Study of Tambol Klong-Dan, Bang Bo District, Samut Prakan Province. Master of Urban and Environmental Planning, Major Field: Urban and Environmental Planning, Department of Urban and Environmental Planning. Thesis Advisor: Associate Professor Eggarin Anukulyutthathon, Doc.3eme Cycle. 162 pages.

The study of Principle of "Principle of Land Use Planning for Industrial Area Regarding the Conservation of Mangrove Ecosystem: Case study of Tambol Klong Dan, Bang Bo district, Samut Prakan Province" is to study direct effect of physical change of industrial area to the ecosystem in study area. The land chosen in this study once had been the area abundant with diversity of mangrove ecosystem. But the industrial factories in the community release more industrial waste water and polluted discharge in to canals causing diminish and deterioration of mangrove forest and ecosystem in that area. The coastline is gradually eroded by strom and wave from not having mangrove forest to help holding soil. This study is conducted to suggest land use planning only of industrial use to be model of conservation and sustainable development of mangrove forest. The research methodology consists of primary data from observation, keeping data and photographic method and secondary data from review of existing literature and compilation of avaiiable relevant to this topic. All the data has been analyzed by method of Kevin Linch Seive Analysis with different factors to determine appropriate area for land use planning. The time period of the study is ten months from January to September 2005.

The study found that the area which has suitable for Land Use Planning for Industrial Area is the area that between surrounds the north of Sukumvit road, Panvithee road. Now,that is the cultivate area for mix aquatic animals. The combine area is around 1.84 square kilometers. It easy to manage the infrastructure system , and the pollutions system, add the standard control to not leave the heavy metal to the water that will not to cause the effect to the community and environment. Restore the area that had been Mangrove Forest and prepare for the expansion community in to the future. After the researching, the suggestion is as follows: direction of environmental solution from the industrial manufacture by avoid using the pollution, reutilization of industrial waste, transmission of clean technology, solution of Mangrove Ecosystem management, restoration and preservation, Ecotourism management and use it as most beneficial as it has for sustainable development at last.


Student's signature

 8 Jan 2007
Thesis advisor's signature