

Teeraphat Tepphan 2008: Application of Clean Technology in the Environmental Quality Management of the Industrial Factory in Tha Chin Watershed. Master of Science (Watershed and Environmental Management) Major Field: Watershed and Environmental Management, Department of Conservation. Thesis Advisor: Mr. Kitichai Rattana, Ph.D. 116 pages.

The objective of this research was to study the application of clean technology format in the industrial factory and the problems, obstacles, including suggestion the trend of applying the clean technology in the environmental quality management of the industrial factory in Tha Chin watershed.

This research was the survey research by purposive sampling from 28 industrial factories where made the clean technology in Tha Chin River Basin area. The tools used in this research were the interview and the observation. The researcher has interviewed the representatives of the chief executive in each factory by the method of individual depth interview. The data were collected from 24 July – 9 August 2007 and they were statistically analyzed by frequency, percentage, average, and mean.

The result indicated that the representatives of the chief executive in each factory took the concept of the clean technology to apply in the environmental quality management of the industrial factory for 6 formats as follows: 1) Recycling 2) Using circulation technology 3) Technology change 4) Changing procedure 5) Products changes something 6) Raw material change. In the aspects of the problems and obstacles in taking the clean technology to apply in the factory showed that the factory entrepreneur still had the view point that taking the clean technology to apply in the environmental quality management in the factory had to be the big investment. In addition, they had to use the expert to administer the project and some line of junior staff lacked of knowledge, understanding and participating in operating the project, and there was not continuity in collecting data to monitor and evaluate in the long period to be economic worthiness. The trend in taking the clean technology to apply extensively, it could do by the government sector and the related agencies should establish the network of the industrial factory to exchange knowledge exchange, to compare between the industry (Benchmarking) and the good practice or the administration (Good Practices) in each kind of industry. In addition, the government sector should help to support the measures of tax abatement and the factory where joined the project, allocated the budget to supports to the small-sized industry, and there was the monitoring/evaluation system of the project continuously in the long period, 3-5 years. In addition, the educational institution should hurry to produce the personnel who had knowledge and skill, it could make the factory reduced production costs and enhanced the capability in the competition of the industrial sector.

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Thesis Advisor's signature

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