

Sutticha Tabdara 2010: Municipal Solid Waste Management in Bangkok (Case Study : Don Muang District). Master of Engineering (Industrial Engineering), Major Field: Industrial Engineering, Department of Industrial Engineering. Thesis Advisor: Associate Professor Saeree Svetasreni, D.Eng. 165 pages.

The objective of this research was to design and create a program for planning the routing of refuse collection community in Bangkok. The developed model was applied from the theory of Vehicle Routing Problem (VRP) using Cluster-First Route-Second Method. Bangkok were divided into 50 zones. Each zone was responsible for collecting all generated wastes in the zone. In planning the waste collection system each truck was assigned a cluster group of waste collection point. The route of the truck, which started form the parking station and went through all the assigned waste collection points and then went to the waste transfer station, was generated. The waste management was developed by using Delphi 7 and SQL Server Express 2005 was used as on Database Management System.

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Thesis Advisor's signature

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