

**OPTIMASI POLA PENGUMPULAN DAN PENGANGKUTAN SAMPAH
KOTA MUARA TEWEH MELALUI PENDEKATAN ZONASI**

TESIS

**Disusun Dalam Rangka Memenuhi Persyaratan
Program Studi Magister Teknik Perencanaan Pembangunan Wilayah dan Kota**

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ABSTRACT

Physical development of Muara Teweh City accompanied by growing population and increasing solid waste generation strives the good management and treatment system of waste problem. Management and treatment of waste expected to overcome the problems resulting from the existing solid waste generation. One way to overcome this problem was through the selection pattern of waste collection and transportation that meet the criteria and aspects in the management of waste.

Pattern of waste collection in Muara Teweh City which applied at this time comprised of; direct individual pattern, indirect individual pattern and direct communal pattern which can only serves a specific region only. Transportation which used in waste transportation were direct transportation pattern and a pattern by elevated container system. This transportation pattern spent the time to go around the city and the road to take and return to containing location. Thus, the pattern of waste collecting and transporting is still not optimally. According to standard, to a small town such as Muara Teweh pattern selected should be the waste collecting and transporting in accordance with the physical condition of the city and aspects of waste management.

Optimization of collecting and transporting of waste can be done through a zoning approach to the physical criteria of the map of waste collecting pattern. Then the map of physical criteria overlaid by using the tools of Geographical Information System is supported with the results of field observations and interviews of the non-physical criteria that can not be mapped. Based on the results of the physical and non physical criteria analysis obtained that zoning pattern of the waste collecting and transporting was appropriate to applied in Muara Teweh. These was the direct individual pattern and indirect individual pattern, while the transporting pattern was direct transporting patterns and a transporting pattern by replaced container system.

Zoning of waste collecting and transporting patterns of assessment result then overlaid by existing waste collecting and transporting patterns. The goal was to know the suitability of the pattern and optimize existing waste collecting pattern by zoning of the waste collecting and transporting patterns of assessment result.

According to overlay result, it is known that the pattern of existing waste collecting and transporting pattern in Muara Teweh was appropriated with the zoning of waste collecting and transporting patterns of assessment results. Inconsistency that occurs only in some areas based on the results of the assessment pattern serviced waste collecting and transporting pattern, but the existing conditions have not yet serviced. Therefore, the zoning of waste collecting and transporting patterns of assessment result can increases coverage area of waste management services in Muara Teweh City of 53.961 ha.

Keywords : *Collecting pattern, transporting pattern, zoning, overlay, suitability and optimization*