

CHAPTER I

INTRODUCTION

1.1 Background

The population growth continuously, certainly followed by increasing of waste production. The rapid of urban development has an impact to the population of the city which is also comparable to the waste that will be produced.

Urban waste in Indonesia has become a serious problem. This can be seen from various parties who participated in improving the quality of public health and the residential environment. In big cities, garbage always create various complicated problems to solve. Because the impact can caused an environmental problem.

In Sleman Regency, especially in Depok Sub-district is an area with communities that have various activities. The amount of waste production from population activities increase from year to year. This problem must be supported with the provision of land to accommodate and process garbage. There are two aspects in waste management, there are technical aspects and non-technical aspects. The technical aspects are garbage transportation, garbage collection, final disposal, composting, and recycling, while the non-technical aspects consist of finance, government agency and institutions, community participation, private

sector participation, government regulations, and the role of government in working together to build a clean city.

In improving service to the community it is necessary to improve the system of urban waste transportation based on the amount of transportation used. If the improvement of the garbage transportation system is able to be implemented then it is expected that the problems in transporting waste in Depok Sub-district can be resolved. Therefore, the research will be carried out about garbage transportation, with the main goal is to analysis urban waste transportation needs in order to provide healthy environment.

1.2 Problem Definition

If we pay attention, the problem that arises is at some point in the Depok area there are still a pile of garbage that is not transported for days, its make the environment look dirty and unhealthy. This phenomenon occurs because the number of garbage collection fleets is limited to carrying garbage generation every day.

From the description above, the problems in this study are:

1. What is collecting pattern and garbage transport system in Depok Sub-district?
2. How much volume of garbage generation in Depok Sub-district in 2019?
3. What is the need for garbage transport equipment in accordance with the volume of waste produced in Depok Sub-district?

1.3 Objective

The objectives of this study are:

1. To analyze collecting pattern and garbage transport system in Depok Sub-district
2. To analyze the volume of garbage generation in 2019 in Depok Sub-district.
3. To find out the needs of dump trucks according to the volume of garbage generation until 2022.

1.4 Limitation

Consider about the cost and time limitations in writing this final project, there are some limitation constraints, including:

1. In calculating the volume of garbage generation, data from 2014 to 2018 is used and prediction for the next 3 years using the amount of garbage generation in 2019.
2. Levies and all costs incurred are not analyzed.
3. In analysis of the total fleet, the impact on traffic volume is not being considered.

1.5 Research Benefits

This research is expected to provide benefits for:

1. Students.

Increasing knowledge, especially about garbage transport in Depok Sub-district.

Can provide an overview condition of the surrounding environment, especially about waste.

2. Government

As a reference in establishing good operational garbage management techniques, especially in the stages of collecting and transporting garbage to the landfill.

3. Community

Increasing knowledge and had information about garbage management, especially those related to the collection and garbage transportation.