

CHAPTER I

INTRODUCTION

1.1 Background

Citarum River, located in West Java, Indonesia, is unable to support the millions of Indonesians who live along the river basin because of how polluted it is. This river is of vital importance for water supply to both the Bandung metropolitan area, where almost 10 million people reside, and the greater Jakarta region, which houses 25 million people. It is also the only water source for the many villages in the surrounding area. Over the past 20 years the water quality has decreased dramatically due to the exponential accumulation of garbage, detergents, human waste as well as hazardous chemicals that are affecting the health and lives of these people.

Badan Pengelolaan Lingkungan Hidup Daerah (BPLHD) Provinsi Jawa Barat administered the Penyusunan Rencana Aksi Citarum Bestari 2015 KM 0-77 in an effort to restore the ecosystem. This initiative covered various environmental problems affecting surrounding villages. In order to access these problems, the information BPLHD lacked was obtained through surveys which consisted of field observations, interviews, public consultation, and questionnaires.

1.2 Predicament

There is a lack of a proper waste management solution in the surrounding villages of the Citarum River due to the extremely impoverished conditions of the people living there. Therefore, a lot of the garbage and waste of the people who live along the river basin ends up in the water. This is making the already polluted river even more contaminated. If nothing is done to prevent the waste from entering the water, the

Citarum River will continue being one of the worlds most polluted rivers and will not be able to support the millions of Indonesians who depend on the river for survival.

1.3 Objective

In regards to the aforementioned problems, the objective is to construct three thematic maps which visualize the multiple waste management problems faced by the villages in the alongside the Citarum River. This is done by integrating with survey data in regards to waste management solutions collected by BPLHD during the Penyusunan Rencana Aksi Citarum Bestari 2015 KM 0-77.

1.4 Outcome

With these maps, the user will be able to identify, prioritize and implement improved waste management solutions for the affected villages.