

## Abstract

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### A Study on Environmental Management of Construction Sites : Focusing on Air Pollution and Noise

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Construction activities can greatly impact the health and quality of life of people working on, and living close to, the construction sites. The environmental issues related to construction work include noise, fugitive dust, and other air pollutants from fuel combustion of construction equipment. In 2013, the number of complaints about construction noise received by Seoul Metropolitan Government(SMG) was more than 21,000, equaling approximately 75% of total noise complaints in Seoul. Also, 2,000 complaints about fugitive dust from construction sites were received by SMG in 2012. On top of that, the fuel combustion of construction equipment is the second largest emission source of PM2.5 and PM10, and the third largest emission source of NOx in Seoul. Hence, this study focused on noise, fugitive dust, and other air pollutants from construction equipment in construction sites.

The purpose of this study is to seek approaches to reduce environmental impacts of noise and air pollution from construction sites, and improve the quality of life of people nearby construction sites. The study began by conducting survey for both citizens and persons related to environmental management in construction sites. In addition, the problems and issues for current laws and management methods were investigated.

As a result, environmental management approaches by construction size and policies for operating environment-friendly construction sites were suggested.

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