

**EFFECTS OF POLLUTION ON ENVIRONMENT IN  
SECONDARY SCHOOLS  
WITHIN INDUSTRIAL AREA NAIROBI COUNTY**

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**A RESEARCH PROJECT SUBMITTED IN THE PARTIAL  
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## ABSTRACT

The study purposed on the effects of pollution on environment in secondary schools within Industrial area in Nairobi County with the aim of providing possible solutions to those effects. The study was guided by the following objectives: To investigate various types of pollution that affect environment in secondary schools within industrial area, Nairobi County. To investigate the measures and laws being taken to prevent pollution that affect environment in secondary schools within industrial area, Nairobi County. To suggest some appropriate measures that can be taken to curb pollution that affect environment in secondary schools within industrial area, Nairobi County. The researcher used descriptive survey design to explore the effects of pollution on environment in Industrial Area. The targeted population for the study is 10 public secondary schools within Industrial Area. This includes 2 boarding (boys /girls) schools, 3 mixed day boarding and 5 mixed day secondary schools. The study respondents will be ten (10) secondary schools principal and H.O.DS, -twenty (20) teachers and two hundred (200) students. For observation all the ten sample schools will be used. The study will involve Form Three and Four students from sampled schools. The choice of Form Three and Four students will be based on the fact that they have already made subject choices for K.C.S.E. The researcher randomly selected 10 Form Three and 10 Form Four students from the ten selected schools giving total of 200 students. In mixed schools the researcher will ensure gender balance by selecting equal number of boys and girls per class. In addition, included as part of respondents were the Sub - County Quality Assurance and Standard Officer (DQASO). The researcher used the following three types of research instrument; The Questionnaires, Interviews; and Observation schedules. Descriptive and inferential statistics were used in data analysis for this study. Descriptive statistics were used to analyze data on the availability of physical facilities. Data collected from the field after which it was coded and entered in the computer for analysis using the statistical package for social sciences (SPSS). The data was collected using two research instruments, the interview schedules for HODs, principals and D.E.O and questionnaire for teachers and students. The responds were

presented using descriptive statistics such as frequency distribution, calculating percentage and tabulation. The data was summarized, conclusions drawn, recommendation for the study and further research given. Results of interview were used as informative evidence in explaining some findings and observations. Results will assist in verifying some data collected by questionnaire. It was on the basis of this approach that findings was reached any conclusions drawn. The study found that there were three major pollutions that were affecting school environment. These were; air pollution, noise pollution and water pollution. Air pollution was the major environmental pollution as supported by 70% of the respondents. The study also found that Noise is a prominent feature of the environment including noise from transport, industry and neighbors. Exposure to transport noise disturbs sleep in the laboratory, but not generally in field studies where adaptation occurs. The sources of pollution are sewerage water, industrial wastes and disposal and controlling emissions from factories, particularly those located in residential areas, pollution of subsoil drinking water because of seepage of industrial effluents and silage and inadequate solid waste disposal