

ASSESSING THE IMPACT OF PLASTIC WASTE ON THE ENVIRONMENT
A CASE STUDY OF MASAKA CITY

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DECLARATION

I, NAMBUUSI KEVIN THEREZA affirm that the research report presented to the faculty of Natural Resource and Environmental Science is entirely my own work. To the best of my knowledge, it has not been previously submitted by any other individual for academic or professional purposes. Any information derived from external sources has been appropriately referenced and cited.

APPROVAL

This is to certify that this research report has been done under the guidance of:

Signature:



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ABBREVIATIONS/ACRONYMS

PET Polyethylene terephthalate

PPEs Personal Protective Equipment

Co2 Carbondioxide

HDP High Density plastic

PVC

ABSTRACT

Plastic waste has emerged as a critical environmental issue in Masaka City, Uganda, posing significant threats to public health and the ecosystem. This report investigates the sources, impacts, and management strategies related to plastic waste in the region.

The primary contributors to plastic pollution in Masaka City include urbanization, inadequate waste management systems, and increased consumption of single-use plastics. Local markets and households are major sources of plastic waste, exacerbated by limited recycling facilities.

The accumulation of plastic waste has detrimental effects on the environment, including soil and water contamination, harm to wildlife, and adverse health effects for local communities. Additionally, it contributes to flooding during rainy seasons due to blocked drainage systems.

Effective management strategies are essential for mitigating plastic pollution in Masaka City. These include establishing a comprehensive recycling program, enhancing community awareness about waste segregation and reduction practices, and promoting sustainable alternatives to single-use plastics.

Addressing plastic waste in Masaka City requires a multi-faceted approach involving local government initiatives, community engagement, and collaboration with environmental organizations. By implementing effective waste management practices and fostering economic empowerment through recycling initiatives, Masaka City can significantly reduce its plastic footprint.