
FACULTY OF ENGINEERING

DEPARTMENT OF MINING AND WATER RESOURCES ENGINEERING

FINAL YEAR PROJECT REPORT

**DESIGN AND CONSTRUCTION OF A WATER PURIFICATION SYSTEM TO
REMOVE MERCURY FROM STREAM WATER.**

**CASE STUDY: MANYE VILLAGE, TIIRA PARISH, SIKUDA SUBCOUNTY, BUSIA
DISTRICT**

BY

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A final year project proposal submitted to the Department of Water and Mining Engineering in partial fulfillment for the award of the Bachelor Degree of Science in Water Resources Engineering of Busitema University

ABSTRACT

This paper begins with an overview of the origin, magnitude, geographical distribution and health consequences of consumption of mercury contaminated water around the world and further zeroed down to Manye Village, Tira town council in Busia district. Access to safe drinking water in many developing countries is a challenge due to inadequate technology and low-income base to carry out proper treatment.

This study is designed to investigate the effectiveness of a three-chamber water purification system for potable water use to provide Manye village with treated water.

DECLARATION

I declare that this research proposal is my original work, except where due acknowledgement has been made. I declare that this work has never been submitted to this University or to any other institution for partial fulfillment for any award.

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SIGNATURE:..... DATE...../...../.....

APPROVAL

This project proposal report has been submitted for examination to the Faculty of Engineering with my due approval as the University Supervisor.

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List of Acronyms and Abbreviations.

THM- trihalomethane

TOC- Total organic carbon

DOC- Dissolved organic carbon

COD- Chemical oxygen demand

BOD- Biological oxygen demand

Contents

ABSTRACT.....	i
DECLARATION.....	ii
APPROVAL	iii
List of Acronyms and Abbreviations.....	iv
1. CHAPTER ONE: INTRODUCTION.....	1
1.1. BACKGROUND.....	1
1.2. Problem statement.....	3
1.3. The Objectives	3
1.3.1. The Main Objective	3
1.3.2. Specific objectives.	3
1.4. Justification.....	3
1.5. Scope of this study	4
1.5.1. Geographical scope.....	4
1.1.1. Conceptual scope	4
1.1.2. Time scope	4
2. CHAPTER TWO: LITERATURE REVIEW	6
2.1. General characterization of waste water from mines and gold processing plants... 6	6
2.1.1. Components of waste water from mines and the gold processing plant.....	6
2.2. Treatment stages.....	12
2.2.1. Coagulation.....	12
2.2.2. Activated carbon.....	14
2.2.3. Disinfection.....	17
2.2.4. Lime softening.....	17
2.3. PUMPS.....	18

2.3.1. The choice of a pump	21
3. CHAPTER THREE: METHODOLOGY	24
3.1. Introduction	24
3.2. METHODOLOGY FOR SPECIFIC OBJECTIVE ONE: To characterize waste water effluent from the mines and the processing plants.....	25
3.2.1. Determination of water demand	30
3.2.2. Field data analysis.....	31
3.3. METHODOLOGY FOR SPECIFIC OBJECTIVE TWO: To design the pumping unit, coagulation, Granular activated carbon and lime softening chambers.....	32
3.3.1. PUMPING UNIT DESIGN	32
3.4. Designing the coagulation chamber.....	36
3.5. Designing a flocculation rod.	37
3.6. Designing the Granular Activated Carbon chamber.....	37
3.6.1. Flow rate calculation:.....	38
3.6.2. Calculating the head loss across the filter.....	40
3.6.3. Filtration rate of the activated carbon filter unit	40
3.7. Designing the lime softening chamber.....	41
3.8. METHODOLOGY FOR SPECIFIC OBJECTIVE THREE: To construct the system prototype and test its performance.	42
3.8.1. Constructing the system prototype.....	42
3.8.2. Testing the system prototype.	43
3.9. METHODOLOGY FOR SPECIFIC OBJECTIVE FOUR: Economic analysis ...	46
3.9.1. Maintenance cost.....	47
4.0 CHAPTER FOUR: RESULTS AND DISCUSSION	48
4.2 General system efficiency	53
5.0 CHAPTER FIVE: CONCLUSION AND RECOMMENDATIONS.	57

5.2 RECOMMENDATIONS	57
6.0 REFERENCES	58
7.0 APPENDIX	60

List of figures

Figure 1 SHOWING A MAP EXTRACT OF TIRA GOLD MINING PARISH	4
Figure 2 SHOWING THE CONCEPTUAL DIAGRAM	4
Figure 3 showing the conceptual diagram	5
Figure 4 showing a centrifugal pump	20
Figure 5 Example solar-powered pump performance curves for a positive displacement pump.	22
Figure 6 Example solar-powered pump performance curves for a centrifugal pump.	22
Figure 7 Showing A graph comparing the water quality parameters from two points of Manye stream in Tira-Busia.....	29
Figure 8 showing A graph showing mercury contents at two sampling points of Manye stream in Tiira Town council, Busia district	30
Figure 9 SHOWING STATIC HEAD	34
Figure 10 showing Relation of Static and Dynamic Heads	34
Figure 11 showing how to determine the dynamic viscosity of water at various temperatures ...	39
Figure 12 showing threading of 1-inch pipe pieces	42
Figure 13 showing characterization of the raw water samples through laboratory tests	44
Figure 14 showing mercury removal efficiency for each treatment chamber	45
Figure 15 showing coagulation chamber efficiency	50
Figure 16 showing how to determine the dynamic viscosity of water	55
Figure 17 showing the centrifugal pump used in the pumping unit	60
Figure 18 Showing reagents used for treatment	60
Figure 19 showing picking of the water sample	61
Figure 20 showing the painting process of the chamber stands	61
Figure 21 showing a process of testing of final parameters from the purification system ...	62