

Problem:
Due to the failure to provide safe drinking water and adequate sanitation services, 5 million people die each year due to water related diseases. Around 3.1 million people died in 2002 as a result of water related disease; 90% of whom were children.



Objective:
To design, build and test a prototype of a water filtration system costing \$5 or less that can be implemented and maintained by local people using locally available materials, and simply provide clean water for the community in need.



Faculty:
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I PRO 325B

Extremely Affordable Water Solutions for World's Rural Poor 2 Bucket Filtration System

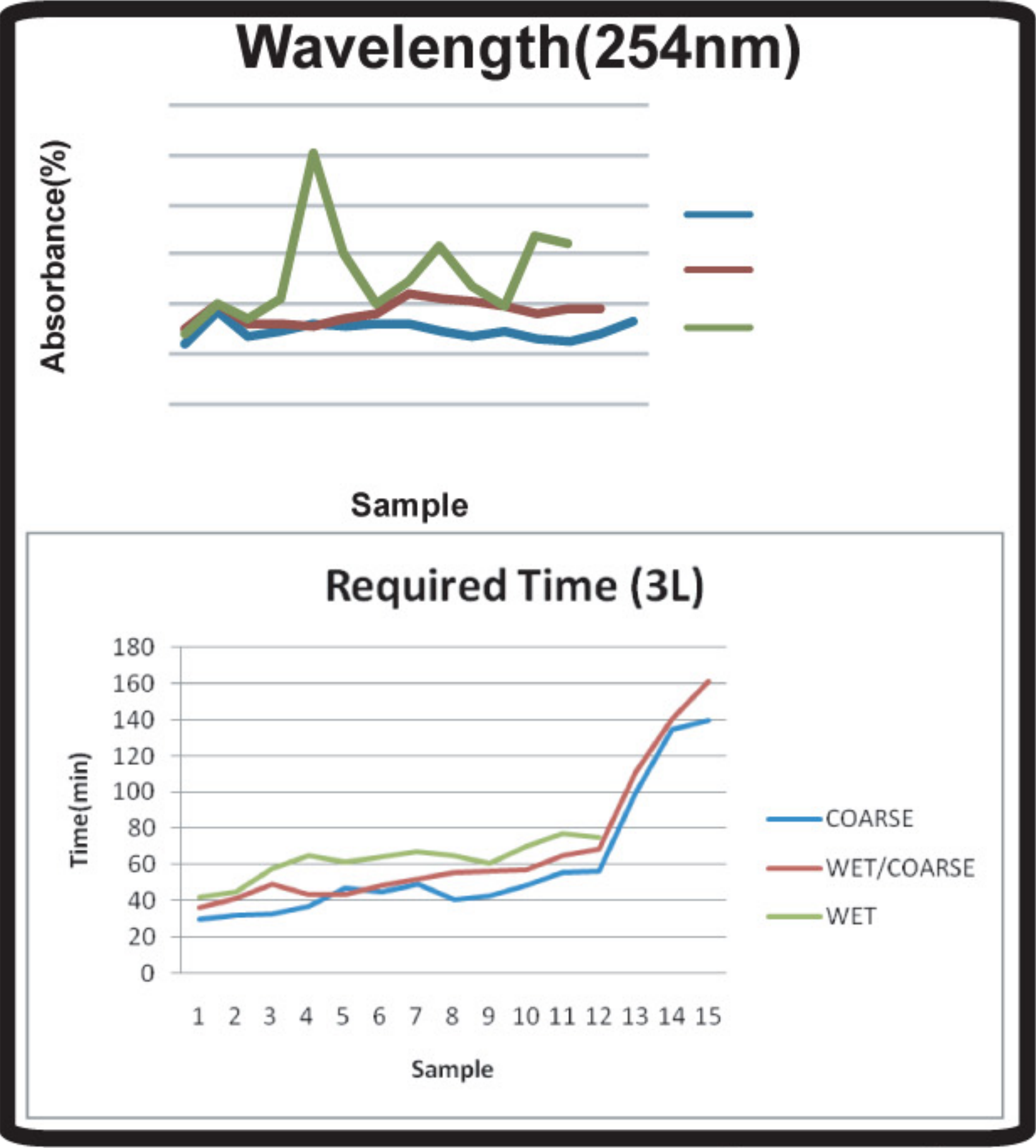
Inactivation of microorganisms by UV-A radiation and thermal treatment

The 2 Bucket System (2BS)

- Turbid Water
- Gravel, 1-2"
- Charcoal/Seed, 1.8, 3"
- Scrap cloth - 1x1"
- Gravel/Clay
- Plastic Bucket
- Clear Water

Design

Fabrication



Data Analysis

2-BUCKET SYSTEM MANUAL

BACKGROUND 1

BACKGROUND 2

BACKGROUND 3

BACKGROUND 4

Peru
Jan. 5 ~ Jan. 19, 2009

Implementation

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