Abstract

This research aims to design and build a well water quality testing software and refillable bottled water quality. This testing software is built using data from physical, chemical and microbiological parameter measurement and location of sampling area data. The software is designed using Microsoft Access as the database and Delphi 7 as the programming language. The built-in software is then tested using physical, chemical, and microbiological data of well water and refilled water that has been filtered through the depots of drinking water. Results of samples testing show that application software can be used as a tool to process data of water quality testing and refill drinking water. The software can provide reports on well water quality testing results and refill water according to well areas and water treatment sites. The software can compare parameters that do not meet the quality standard or meet the standard quality in accordance with the SNI standard.

**Index Terms**

Computer Science  
Information Systems

**Keywords**