

## ABSTRAK

**Annisa Zanjabila Irsan. NIM : 5183540005. Analisis Kualitas Air pada Depot Air Minum Isi Ulang Berdasarkan Parameter Fisika dan Kimia di Kelurahan Mabar Kota Medan. Program Studi Gizi. Jurusan Pendidikan Kesejahteraan Keluarga. Fakultas Teknik. Universitas Negeri Medan. 2023**

Air merupakan suatu komponen yang berperan sangat penting dalam tubuh. Air yang di konsumsi sebagai air minum harus memenuhi syarat kesehatan yaitu bebas dari pencemaran. Penelitian ini bertujuan untuk mengetahui : 1) Kondisi tempat, peralatan, dan PBHS karyawan depot air minum 2) Sumber air baku depot air minum isi ulang 3) Kualitas air minum isi ulang berdasarkan parameter fisika 4) Kualitas air minum isi ulang berdasarkan parameter kimia. Metode penelitian ini menggunakan *cross sectional*. Teknis analisis data menggunakan perangkat lunak *Microsoft Office* dengan teknik pengumpulan data menggunakan kuesioner yaitu kondisi tempat, peralatan, PHBS karyawan yang berpedoman pada Kemenkes Republik Indonesia Nomor 43 Tahun 2014, pemeriksaan parameter fisika secara organoleptik parameter kimia menggunakan alat TDS meter dan pH meter. Tempat penelitian dilaksanakan di Laboratorium Gizi Fakultas Teknik Universitas Negeri Medan. Waktu penelitian dilakukan bulan September-Desember 2022.

Berdasarkan hasil penelitian ini menunjukkan bahwa kondisi tempat dan peralatan sudah memenuhi syarat sanitasi depot air. Sumber air baku air minum isi ulang pada air pegunungan sebesar 67% dan air PDAM 33%. Hasil pengujian parameter fisika meliputi bau, rasa, dan warna termasuk kategori telah memenuhi syarat kualitas air minum sebesar 87%. Hasil pengujian parameter kimiawi meliputi TDS dan pH termasuk kategori telah memenuhi syarat kualitas air minum sebesar 93%.



## ***ABSTRACT***

**Annisa Zanjabila Irsan. NIM : 5183540005. Analysis of Drinking Water Quality in Refill Drinking Water Depots Based on Physical and Chemical Parameters in Mabar Village Medan City. Nutrition Study Program. Departemen of Family Werfare Education. Faculty of Engineering. Medan State University. 2023**

Water is a component that plays a very important role in the body. Water that is consumed as drinking water must meet health requirements, namely free from pollution. This study aims to determine: 1) The condition of the premises, equipment, and PBHS of drinking water depot employees 2) Source of raw water for refill drinking water depots 3) Quality of refill drinking water based on physical parameters 4) Quality of refill drinking water based on chemical parameters. This research method uses cross sectional. Technical data analysis using Microsoft Office software with data collection techniques using questionnaires, namely the condition of the place, equipment, PHBS of employees based on the Ministry of Health of the Republic of Indonesia Number 43 of 2014, examination of physical parameters organoleptic chemical parameters using TDS meters and pH meters. The location of the research was carried out at the Nutrition Laboratory of the Faculty of Engineering. When this research was carried out from September to December 2022.

Based on the results of this study, it shows that the condition of the place and equipment meets the sanitation requirements for the water depot, and the PHBS of the employees does not meet the sanitation requirements for the drinking water depot. The raw water source for refill drinking water is mountain water by 67% and water PDAM is 33%. The results of testing the physical parameters including smell, taste, and color are included in the category that meets the drinking water quality requirements of 87%. The results of chemical parameter testing including TDS and pH are included in the category of fulfilling the drinking water quality requirements of 93%.

