

UNIVERSITI TEKNOLOGI MARA

**DRINKING WATER QUALITY FROM HOME
WATER FILTER IN FASA 2 AT PUNCAK
ALAM**

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**Project paper submitted in partial fulfillment of the requirement for
the degree of**

**BACHELOR IN ENVIRONMENTAL HEALTH AND SAFETY
(HONS)**

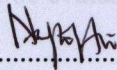
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Declaration by Student

Project entitled “ Drinking Water Quality From Home Water Filter in Fasa 2 at Puncak Alam” is a presentation of my original research work. Whenever contribution of others are involved, every effort is made to indicate this clearly, with due to reference to literature, and acknowledgement of collaborative research and discussion. The project was done under the guidance of Hj. Hashim Bin Ahmad as Project Supervisor. It has been submitted to the Faculty of Health Science in partial fulfillment of the requirement for the Degree of Bachelor in Environmental and Safety (Hons.)

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Abstract

DRINKING WATER QUALITY FROM HOME WATER FILTER IN FASA 2 AT PUNCAK ALAM

Nurul Ain Binti Jemari

According to World Health Organization (WHO) 2015, water quality can be compromised by the presence of infectious agents, toxic chemicals and radiological hazards. Water filter provide good quality of water but they also present risk to health if contamination occurred in the water filter. Study location was selected at Fasa 2 Puncak Alam. Colilert test was used for biological parameter while for physical parameter direct reading was taken during sampling process. A statistical analysis that is statistical package for the social science (SPSS) version 17 was used in this study. The result for biological parameter found out that total coliform exceed the standards for house A, B, C, D, E, F, J and also for tap water with readings of 1MPN/100ml, 0.25MPN/100ml, 0.25MPN/100ml, 0.75MPN/100ml, 0.5MPN/100ml, 0.75MPN/100ml and 1.28MPN/100ml. No detectable of E.coli in 100ml of water sample and it is comply with standard. For physical all parameter comply with National Drinking Water Quality Standard and turbidity showed 0NTU for all water sample. Comparison between sampling point found out that pH showed significant different between groups. There is fair correlation between pH and total coliform and poor correlation between temperature and total coliform.

Keywords: Water Quality, Water filter, Biological Parameter, Physical Parameter.