THE STUDY OF OUTDOOR AIR PARTICULATE MATTER CONCENTRATION AND COMPOSITION AT THE FRONT GATE AND REAR GATE OF UiTM SHAH ALAM MALAYSIA

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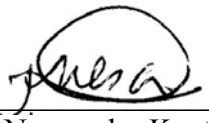
Final Year Project Report Submitted in
Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science (Hons.) Chemistry
in the Faculty of Applied Sciences
Universiti Teknologi MARA

NOVEMBER 2009

This Final Year Project Report Entitled **" The Study Of Outdoor Air Particulate Matter Concentration And Composition At The Front Gate And Rear Gate Of UiTM Shah Alam Malaysia"** was submitted by Mohd Fairul bin Mohd Saad, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Chemistry, in the Faculty of Applied Sciences, and was approved by



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ABSTRACT

THE STUDY OF OUTDOOR AIR PARTICULATE MATTER CONCENTRATION AND COMPOSITION AT THE FRONT GATE AND REAR GATE OF UiTM SHAH ALAM MALAYSIA

A study was conducted at the front gate and rear gate of Universiti Teknologi Mara (UiTM) for outdoor air quality. The indicators of air pollutant monitored were lead (Pb), copper (Cu), zinc (Zn), and calcium (Ca) in particulate matter (PM_{10}). The instrument used for this study was the Air Mini-Volume sampler and Inductively Couple Plasma with Optical Emission Spectrometer (ICP-OES). The monitoring was conducted during the semester on weekdays and on weekend. Result from this study show level of air pollutants (PM_{10}) at the front gate and rear gate was generally high. The highest value of total particulate matter (PM_{10}) measurement can reach almost 343.46μg/m³, exceeding Malaysian Ambient Quality Guidance of 150μg/m^3.