

UNIVERSITI TEKNOLOGI MARA

**DEVELOPING WATER SUPPLY INFORMATION SYSTEM
OF SYARIKAT AIR PERLIS (SAP)**

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Thesis submitted in fulfillment
of the requirements for the degree of
Surveying Science and Geomatic (Hons)

Faculty of Architecture, Planning & Surveying

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AUTHOR'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Post Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.


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ABSTRACT

Individuals rely upon water for drinking, cooking, washing, diverting squanders and household needs. Water supply framework give the adequate water of fitting quality and amount has been a standout amongst the most imperative issue in human everyday lives exercises. Water supply system consists of infrastructure that collects, treats, stored and distributes water between water sources and consumers. As to deal with the information appropriately, online framework in overseeing water supply data are required to guarantee the information are efficient. Geographical Information System open sources of is ones is mechanism in reduces the world economic crisis, formed the content for the promotion and development of free systems and open source technologies. The QGIS open sources programming utilized all through the procedures. This examination went for build up the water supply data arrangement of Syarikat Air Perlis (SAP) utilizing the GIS approach. The water tank around at the Perlis is picked as a contextual analysis. The water tank around at the Perlis is chosen as a case study. The research has customized and integrated an open source system was used for the development of an interactive and friendly geographic user interface. The research has customized and integrated an open source system was used for the development of an interactive and friendly geographic user interface. The created framework empowers clients to see and collaborate with the spatial information. The research focused on improving the efficiency and effectiveness of the decision making process and data sharing.

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