

HIGHER TECHNICAL INSITUTE

CIVIL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DESIGN OF A WATER TREATMENT PLANT

C/989

BY

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SUMMARY

Water from many surface and ground water sources is not suitable for potable supply purposes in its untreated state.

Treatment may be required to protect the health of the consumer, to make the water acceptable to the senses of sight, smell and taste or sometimes for economic reasons such as to prevent corrosion in pipe work or even staining of clothes!

The main objective of water treatment is to separate undesirable impurities from the product water. These impurities which are drawn off in concentrated form as side streams to the main process, often require further treatment before they can be returned to the environment and the consumer.

Water treatment is a very important part of civil engineering.

This project outlines the procedures followed by the Tersephanou water treatment plant.

It also gives general information about water characteristics, quality and qualifications.

Finally it is making design suggestions for the improvement of a specific water treatment unit and carries out an environmental impact study for a treatment plant.

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