

## Water Efficiency Practices in the Metropolitan Area of Monterrey

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### Abstract

In the semi-arid region such as the Metropolitan Area of Monterrey, the factor that enhances or delays industrial and population growth is water. Even though the majority try to solution this problem by searching new aquifers or constructing lakes. In our case we are fighting this battle with three major practices that have given us a better results. These three practices are the following:

1.- Leak detection and their correction.- This is done by locating macro measurements in order to compare the total inflow in certain section and compare it with the micro measurements that are located in the homes or industries. By this measurement we have been able to reduce leaks, increasing the efficiency of water management.

2.- Reclamation water reuse.- In the past after the wastewater was treated the effluent would be discharged into the river. At this moment some of this treated water is used in the industry instead of using drinking water. This way we have more drinking water available for population growth and specific industry that have to use potable drinking water.

3.- Water culture.- Using different medias to culture people specially children to use water wisely has been an important impact to increase water efficiency. Besides, dew to the fact that during the 80's and 90's water shortage in the Metropolitan area were frequent, people have given water the value that it deserves.

In conclusion the Metropolitan area of Monterrey, through three basic and easy practices we have been able to sustain population and industry growth with the same amount of water.

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