

Broward County MIKE SHE Model - Surface water and Groundwater Modeling in an urban environment

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Abstract

The densely populated Broward County on Florida's popular East coast faces the challenge of balancing flooding, water supply and environmental water management issues.

All these water management issues are complex and closely related. Groundwater levels and recharge depends on the management of surface water canals and lakes while increased groundwater pumping will affect surface water bodies as well as the entire water balance and thus could also affect the Everglades restoration project. Water management in Broward County calls for sophisticated methods that have the ability to analyze and predict how water management policies will impact the various elements of the water balance including surface water and groundwater impacts.

To support the water management, the Broward County Department of environmental Protection is using DHI's MIKE SHE software package. MIKE SHE was selected because it can simulate the complicated surface water operational practices as well as the important surface water and groundwater interactions