



## **MIKE SHE/MIKE11 Development and Application For South Florida Water Management District**

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A coupled surfacewater/groundwater model was developed by coupling the two Danish Hydraulic Institute (DHI) Models, MIKE SHE and MIKE11. As part of the study, WEST Consultants developed a program to translate MODFLOW groundwater model data sets into a form compatible with the graphical interface and input data structure used to develop the groundwater model component of MIKE SHE. In addition, we reviewed the overall model development, including the addition of new processes to describe infiltration and ET, consistent with SFWMD methods. The coupled model was applied to a number of test application sites. WEST Consultants worked with DHI staff in applying the MIKE11 component of the coupled model to the largest application to the Caloosahatchee River. The river drains some of Lake Okeechobee to the southwest, to the Gulf of Mexico, and has numerous hydraulic and irrigation structures.

**Project Owner:**

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**Completion Date:**

*April 1999*