



## **Progressive Water Resources**

*Integrated Water Resource Consultants*

### **Peter Brown**

**E.I.T.**

#### **OVERVIEW**

Mr. Peter Brown is a Florida certified Engineer in Training and holds a B.S. in Environmental Engineering Sciences from the University of Florida. He has previously worked with several engineering firms and has gained an extensive knowledge in ArcGIS mapping and hydrologic and hydraulic modeling using ICPR software. He has been involved in the development of Watershed Management Plans for SWFWMD, Marion, and St. Johns Counties in order to investigate their regional responses to design storms.

#### **RELEVANT EXPERIENCE**

##### **Lake Stafford/Priest Prairie and Florida Ridge WMPs**

Mr. Brown was actively involved in the drainage studies for the Lake Stafford/Priest Prairie and Florida Ridge watersheds in Marion County. For the Lake Stafford/Priest Prairie watershed, he provided research, in-depth GIS analysis, inventory of stormwater infrastructure, and created the catchment delineations and ICPR link-node hydronetwork. The Florida Ridge WMP was a continuation of another firm's watershed evaluation in which Mr. Brown identified significant physical landscape changes that altered stormwater routing results.

##### **Ponte Vedra Regional Model**

In addition to the central Florida watersheds characterized by closed basins, Mr. Brown has also worked on producing WMPs in more dendritic locations including the Ponte Vedra Regional Model in St. Johns County. For this project, he conducted extensive research in groundwater and surface water quality and levels, areas of historical flooding, and tidal influences on the area of interest as well as assimilated a collection of stormwater infrastructure features by reviewing hundreds of Environmental Resource Permits. He was an actively involved in performing field visits and assisted delineation of catchments and channels. Mr. Brown also aided in the production of a link-node model schematic for the Ponte Vedra Regional Model.

In addition to the above projects Mr. Brown has been involved in a multitude of other tasks including bridge parameterization; Q/C of instabilities within ICPR; and review of Time of Concentrations within a highly urbanized watershed areas.