

## South Carolina Surface Water Quantity Models Monthly Summary

Invoice Date: September 23, 2014  
For Services Between: August 15, 2014 and September 13, 2014  
Invoice No.: 1

### Summary of Work Completed During Invoice Period

#### **Project Management and Related Tasks**

- Completed project set-up and project planning activities, including:
  - Development of a Project Management Plan
  - Development of Staffing and Execution Plans
  - Completion of a Project Quality Management Meeting to identify critical success factors (CSFs). Action items were identified and assigned to address each CSF.
- Held a pre-kickoff meeting with DNR and DHEC staff on August 7th
- Held a formal kickoff meeting with DNR and DHEC staff on September 10th
- Obtained and provided example Data Security Plan
- Began preparation of Modeling Plan

#### **Data Collection (Statewide)**

- Received, reviewed, and organized DHEC-maintained data, including:
  - Monthly water use records for permitted M&I, hydropower, and agricultural users
  - Non-active (or non-permitted) historical water use records
  - Monthly NPDES discharges
  - GIS shapefiles with active and former withdrawal and active discharge locations
- Downloaded and organized USGS discharge data for active and former gages statewide.
- Obtained and organized statewide GIS files (hydrography, basins, county/municipal limits) from DHEC, DNR, USC, and other.

#### **Data Analysis and Modeling**

##### Saluda

- Reviewed various unimpaired flow (UIF) methodologies; developed timeline of historical gaged flows; and prepared a draft approach schematic for developing UIF datasets.
- Developed preliminary SWAM model schematic and framework.
- Began SWAM model enhancement to incorporate daily time step.

##### Edisto

- No work completed. Note that project startup-activities including the kickoff meeting, modeling plan, model enhancement and other activities were included under the Edisto Basin budget. The Edisto was originally identified as the pilot basin for modeling.

Broad

- No work completed

Pee Dee

- No work completed

Catawba

- No work completed

Santee

- No work completed

Savannah

- No work completed

Salkehatchie

- No work completed

**Summary of Upcoming Work**

Over the next month, the project team will:

- Continue with data collection with the focus on contacting permitted users in the Saluda, Edisto, and Broad river basins to obtain historical water use and related data.
- Finalize the draft Modeling Plan (Due Oct 15<sup>th</sup>).
- Continue development of methodology to prepare UIF datasets (Due Dec 1<sup>st</sup>).
- Continue incorporation of the daily/weekly time step and development of the Saluda Basin model framework.

**Issues Impacting Scope, Schedule, or Project Cost**

No issues were identified during the previous month which might impact the scope, schedule, or cost.