

A WEB GIS-BASED MOHAWK RIVER WATERSHED PROJECT IMPLEMENTATION TRACKING SYSTEM

Katie Budreski, Stone Environmental, Inc.



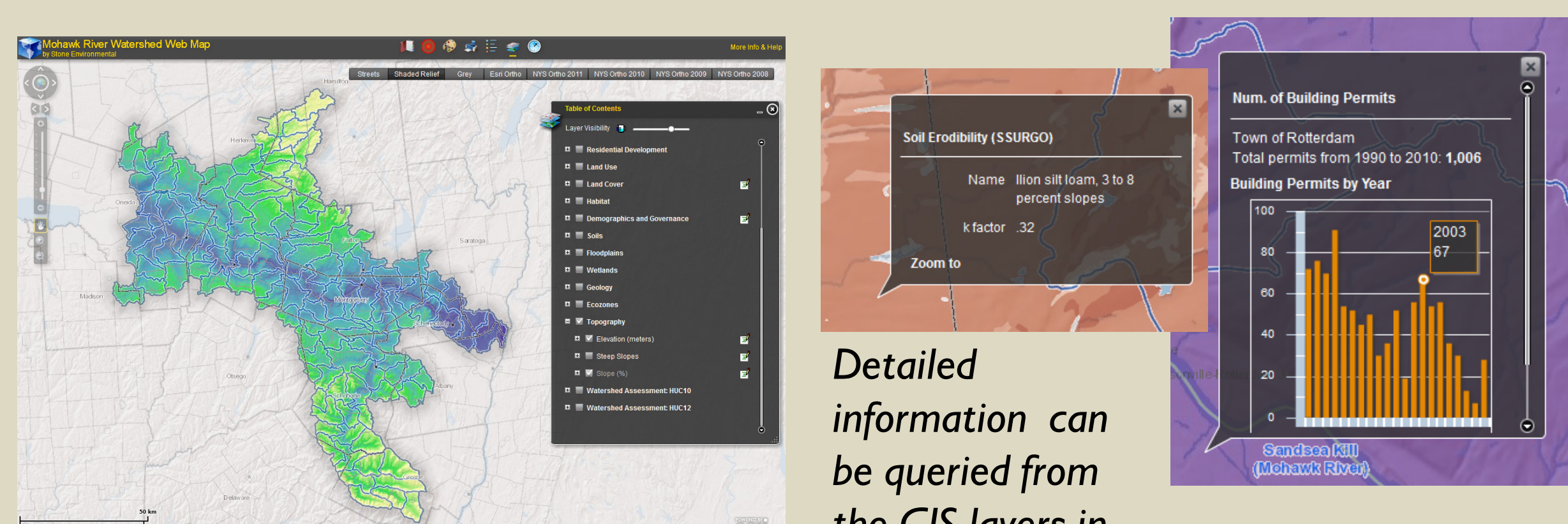
GIS NEEDS FOR WATERSHED PLANNING IN THE MOHAWK

The use of web-based geographic information systems (GIS) has played a significant role in the characterization of the Mohawk River Watershed, the development of the watershed management plan, and the prioritization of projects to protect and restore portions of the basin.

In 2012, a Mohawk River Watershed Web Mapping application was developed to aid in the development of the watershed management plan. In 2014, Stone expanded the Mohawk River Watershed Web Map with a secure, user updatable application that tracks implementation of watershed projects outlined and recommended in the management plan.

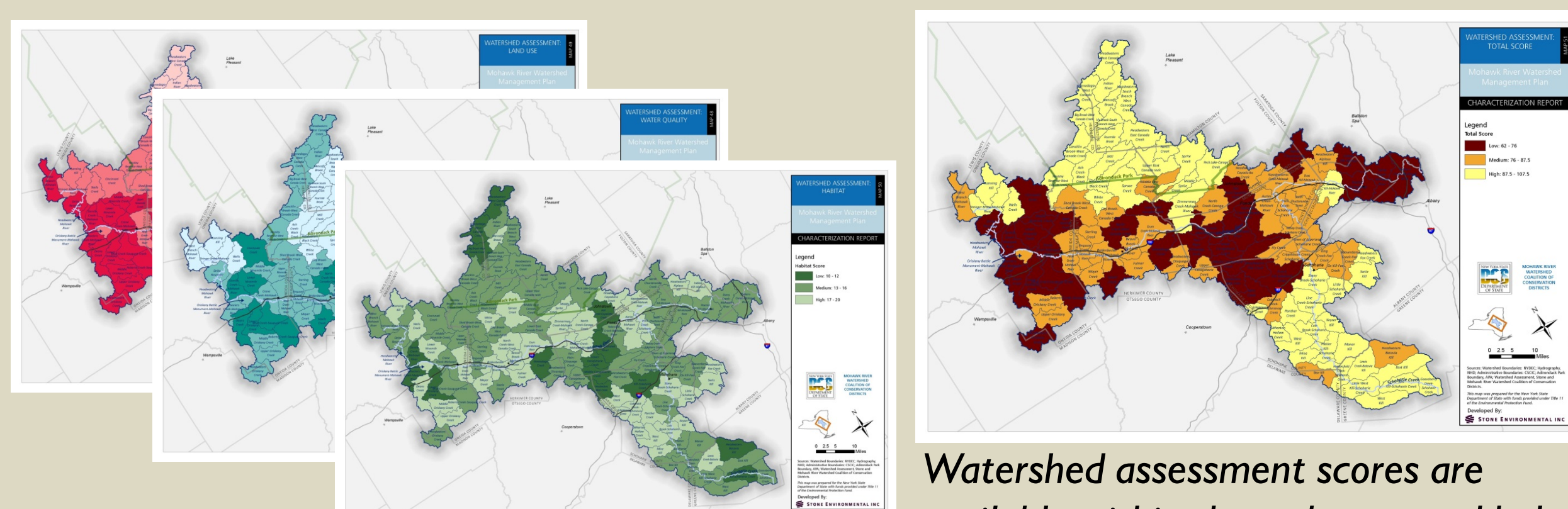
Mohawk River Watershed Web Map

The Mohawk River Watershed Web Map continues to be a valuable tool for watershed planning within the Basin. The original web map allows for visualization of land use, water quality, and habitat data. Also, sub watershed assessment scores are provided as a baseline of health across the basin. These assessment scores, along with the base datasets, were used in developing the watershed management plan and implementation strategies.



The Mohawk River Watershed Web Map allows easy utilization of relevant GIS data.

Watershed assessment scores serve as a baseline for relative watershed health at the sub-watershed level.

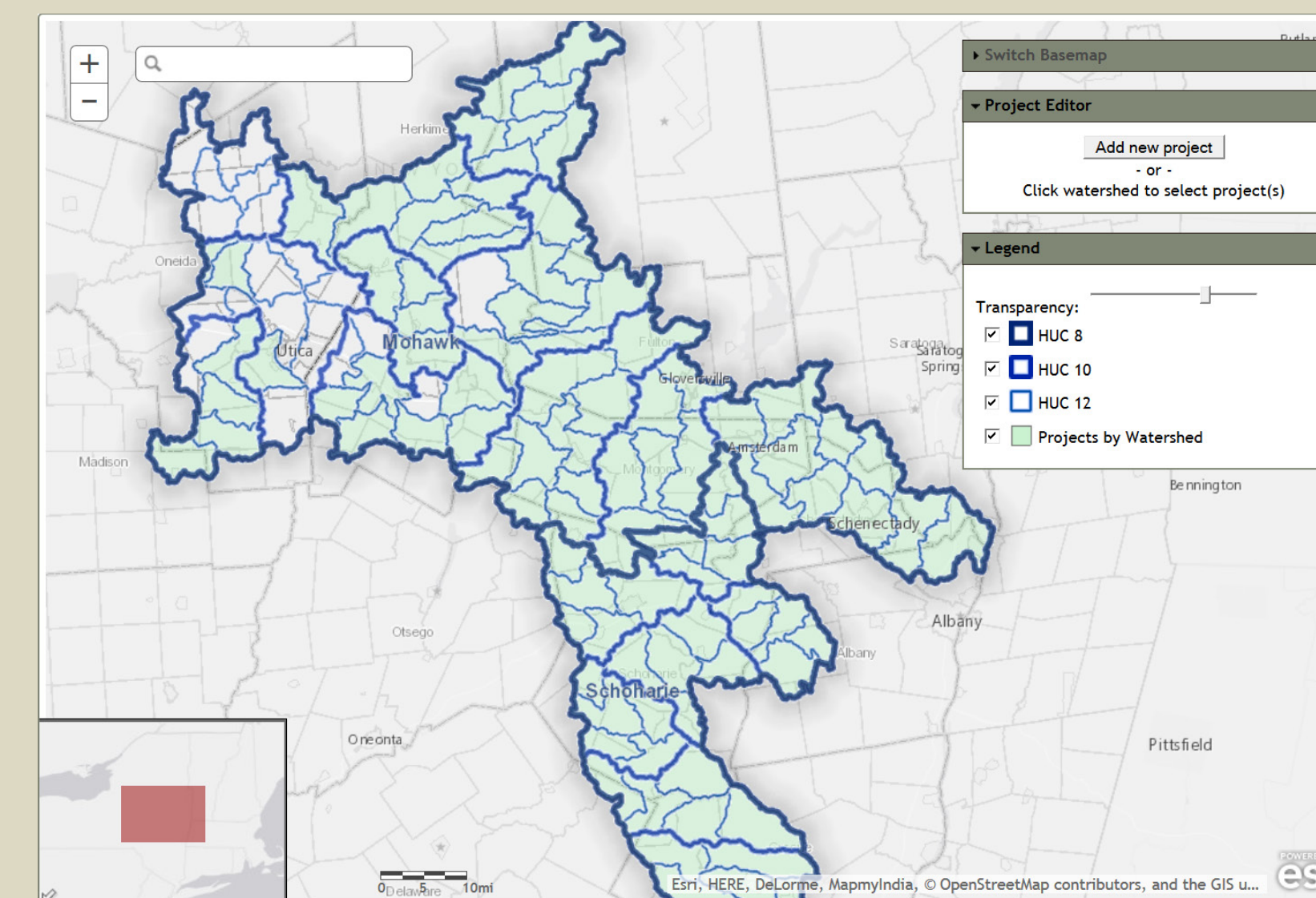


Watershed assessment scores are available within the web map and help to describe baseline conditions.

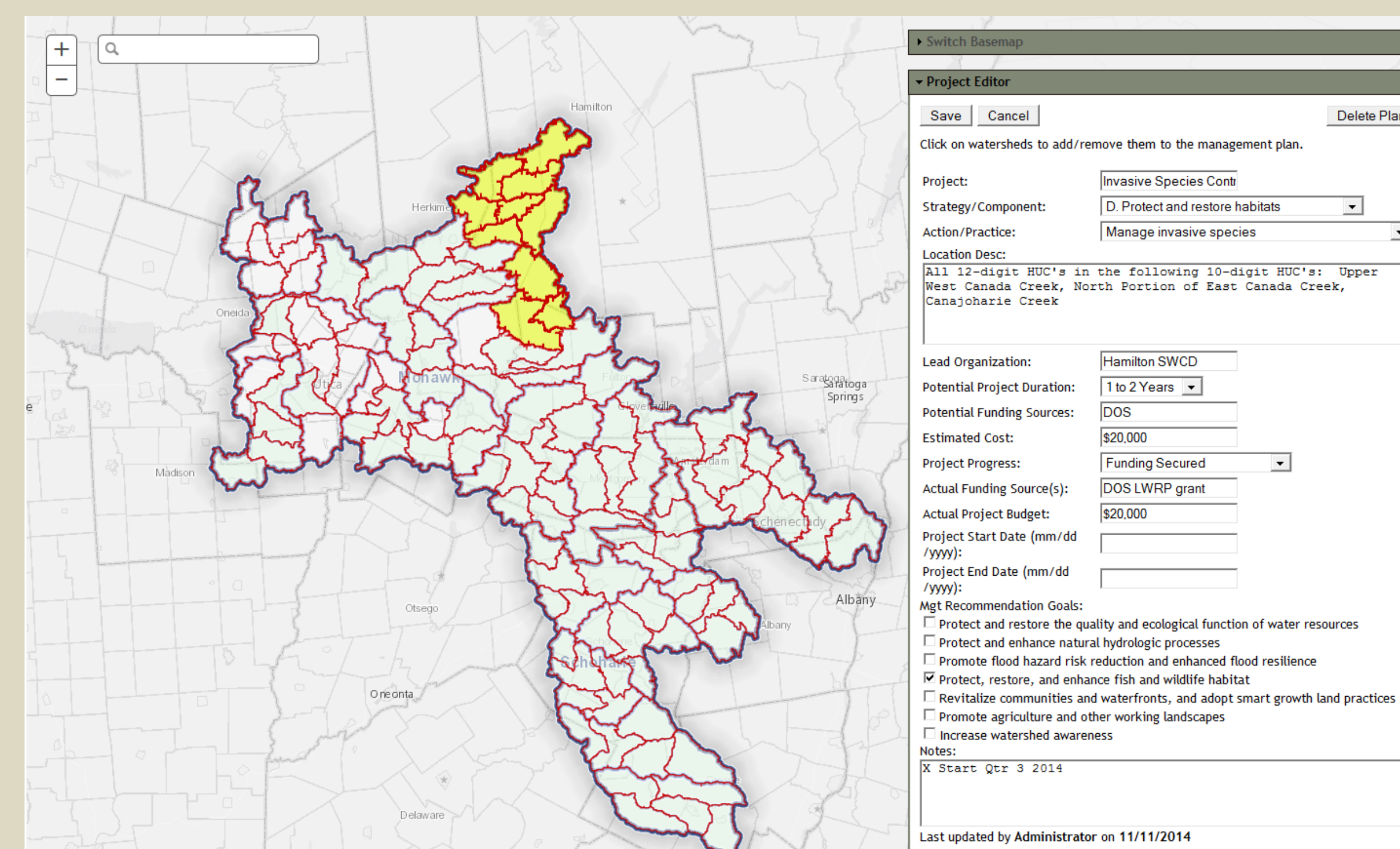
Implementation Tracking System

Following the watershed characterization effort, implementation strategies were outlined in the *Mohawk River Watershed Management Plan*. In 2014, Stone expanded the Mohawk River Watershed Web Map with a separate secure, user updatable application that tracks implementation of watershed projects outlined and recommended in the management plan.

The Implementation Tracking System is a separate, password protected site that Coalition members can use to track project progress and investments made within the Mohawk River Watershed in support of Management Plan goals.



Projects are tracked at the HUC 12 sub-watershed level. Individual projects may encompass multiple HUC 12 sub-watersheds. In the example below, all of the yellow highlighted HUC 12 sub-watersheds are included in an Invasive Species Control project. This is an area with relatively low to medium habitat scores.



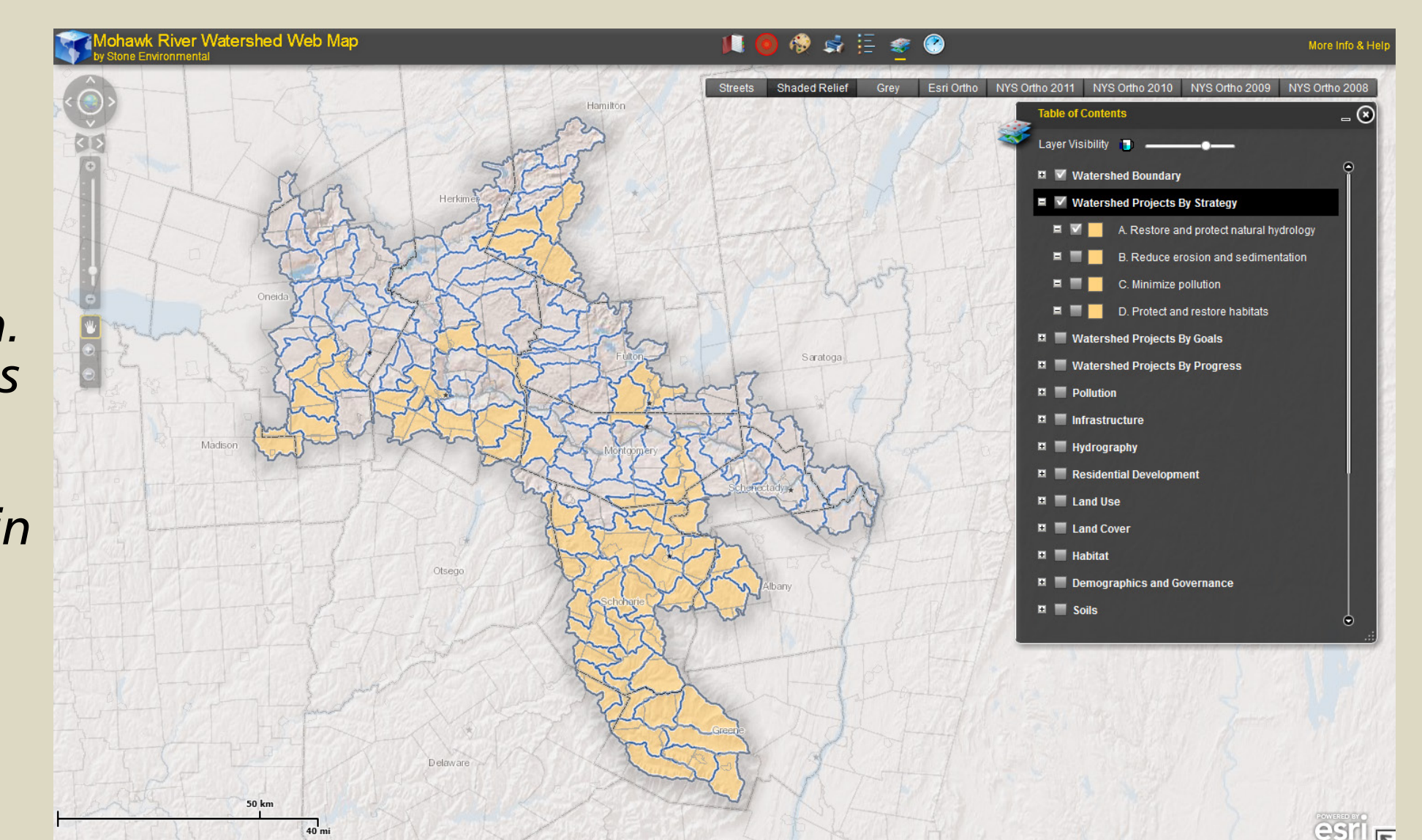
Users can click on the map to view and edit project details associated with sub-watersheds.

Clicking the Edit button brings users to an editable web form. Many data fields are populated using drop down menus to ensure consistent data entry and to allow for data summarization and mapping.

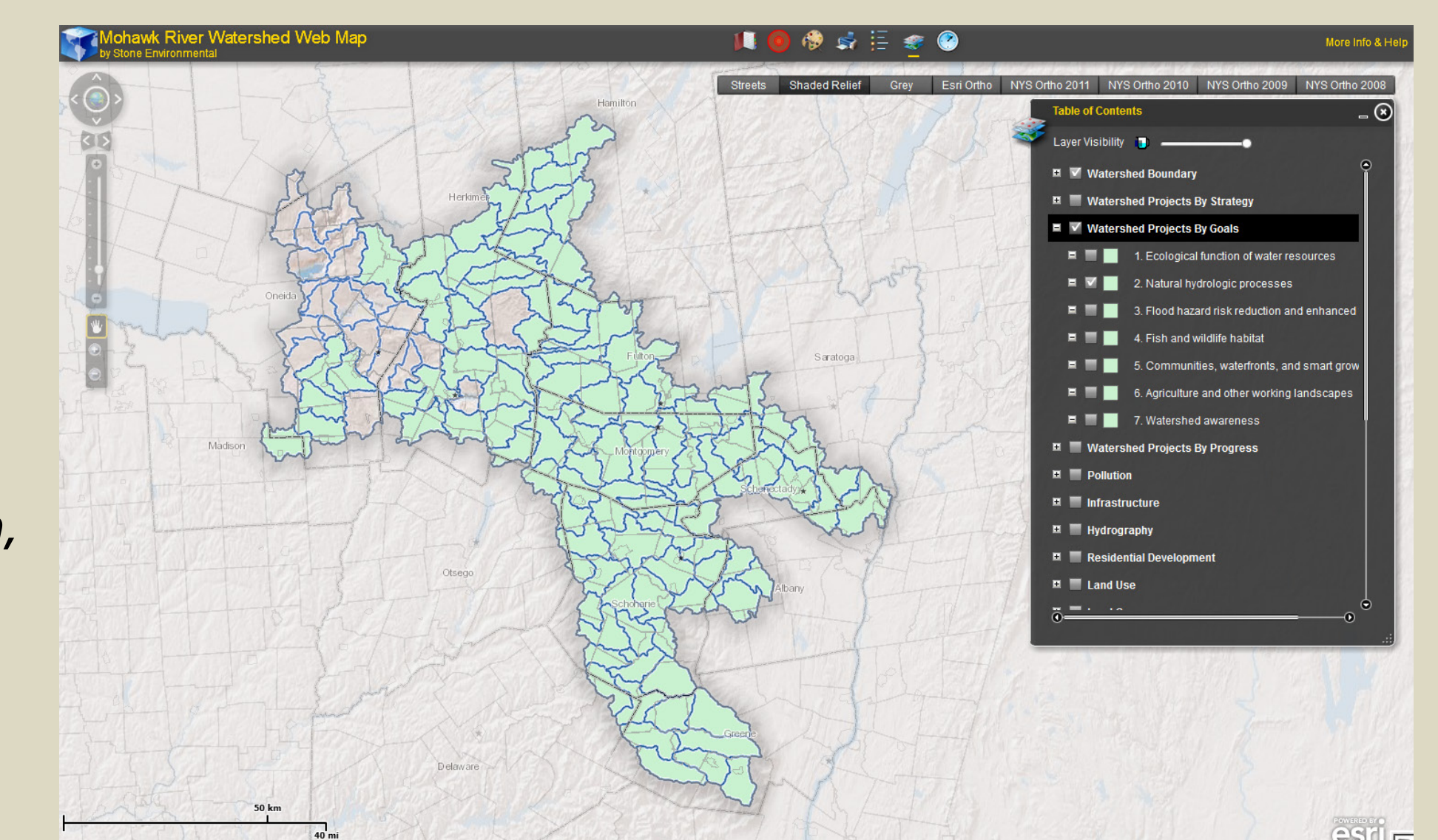
The Mohawk River Watershed Web Map with Project Data

The project data that is added and edited within the Implementation Tracking System is immediately viewable within the public facing Mohawk River Watershed Web Map. Projects can be viewed by strategy, goal, and progress.

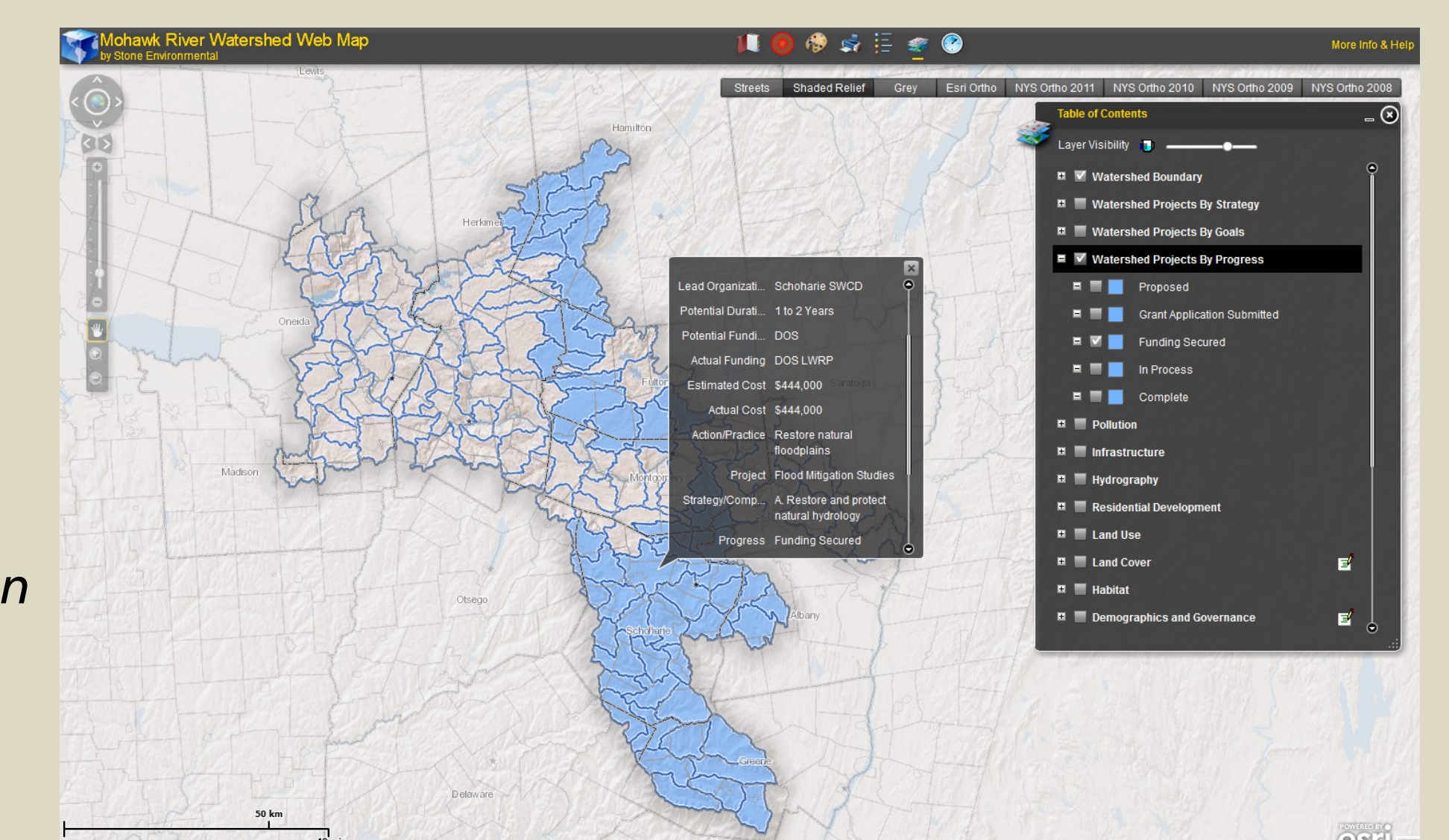
There are four overall strategies outlined in the Mohawk River Watershed Management Plan. Each project aligns with one of the four strategies, which are stored in the project database and viewable in the public-facing web map.



Projects can be serve to meet up to seven different goals, also outlined in the Mohawk River Watershed Management Plan, and managed within the Implementation Tracking System.



Project status can be managed within the Implementation Tracking System from a proposed stage to a completed stage. As projects progress, users can view updated project progress status, along with project details.



MANAGING MANAGEMENT PLAN PROGRESS

Coalition members will be updating project progress of Mohawk River Watershed Management Plan implementation strategies throughout the life of the plan. To find out more about the plan and web map, visit: mohawkriver.org