

# Green Innovation Grant Program

**Project Title:** Stormwater Treatment Upgrade

**Grant Recipient:** Chautauqua Institution

**Location:** Chautauqua County, NY

**Green Infrastructure Practice:** Bioretention, Rain Gardens and Bioswales, Construction and Restoration of Wetlands

**EFC Grant Amount:** \$750,000

**Total Project Amount:** \$846,304

GIGP ROUND 2

*Project in Construction 08/2013*

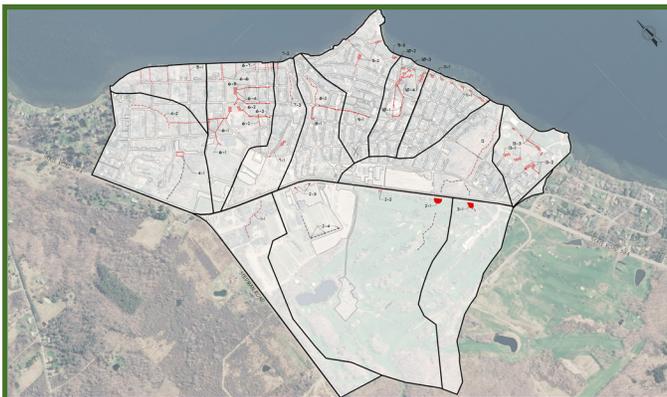
## Project Description:

This project will treat a large portion of the stormwater runoff generated on 700 acres of grounds of the Chautauqua Institution, a private educational organization near Lake Erie in western New York.

Open space on the campus will be retrofitted with innovative stormwater practices, including bioengineering an existing 2,500 foot long ravine to create a series of wetlands, which will provide areas for the water to pond and allow particles and sediment to settle. Improvements to the ravines will vary based on the channel type and flow, but some areas may include rip-rap protection

along the banks to prevent further soil erosion, stone weirs to redirect the flow away from the eroding banks and/or rock dams to allow areas for ponding during larger storm events. In addition, new filtration and bioretention areas will provide vegetated buffer zones planted with native vegetation to stabilize banks and promote plant uptake of stormwater.

The new infrastructure will also include ground discharge wells to convert portions of runoff for groundwater transport.



*Aerial view shows proposed area of drainage improvements on the shores of Chautauqua Lake (above); section drawings illustrate constructed wetlands (right).*

