CONSERVATION QUARTERLY

Onondaga County Soil & Water Conservation District



Shotwell Brook Stromwater Attenuation Project—Skaneateles Lake

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The Shotwell Brook stormwater attenuation project has been completed in Skaneateles, NY! The project involved the creation of a 1.05 acre constructed wetland on abandoned agricultural land-with an extensive floodplain allowing for 1,920,000 gallons of storage during high flow stream discharge events. The project also included cross vane and rock grade control structures installed at the upstream end of the floodplain swale. These features direct discharges above bankfull flow into the wetland allowing for temporary storage and attenuation of peak flows. Creating an expansive floodplain provides many enhanced benefits for the watershed such as carbon sequestration, downstream

flood mitigation and water quality improvements including; sediment trapping, nutrient removal and chemical detoxification.

The primary goal of this conservation practice is to significantly reduce sediment transport to Skaneateles Lake. High intensity storm events have historically resulted in high volume turbid discharges at the tributary outlet resulting in significant sediment plumes in Skaneateles Lake. Improving water quality within the Shotwell Brook Watershed is of high priority due to its close proximity to one of the City of Syracuse's drinking water intakes. The City and surrounding communities comprise of over 220,000 households that are dependent on Skaneateles Lake as their unfiltered drinking water supply.

The project was a collaboration between Fish & Wildlife Service, Skaneateles Lake Watershed Agricultural Program and Onondaga County Soil & Water Conservation District. A huge thank



you to Gian Dodici at the Fish & Wildlife Service for the design and input to see this project come to fruition, to the contractor



Kurt Warren who completed the project before the deadline and under budget, the City of Syracuse and NYS Climate Resilient Farming Grant for funding and to the landowner Barry Maturevitz for allowing this project to be constructed on his property. This project is a demonstration of several agencies working together to improve water quality and help keep Skaneateles Lake clean!