



**US Army Corps
of Engineers**

Scajaquada Creek Modeling, NY

Great Lakes Remedial Action Plans Toxics and Areas of Concern Focus Area

Project Location: Buffalo, New York, Niagara River Area of Concern source area.

Project Description: Scajaquada Creek is a tributary to the Niagara River Area of Concern. This project will entail the development of an integrated surface and subsurface water model of the lower Scajaquada Creek watershed (from emergence into Forest Lawn Cemetery to the Niagara River) and the groundwater resources used to replenish Delaware Park’s Hoyt Lake, Forest Lawn’s Mirror Lake, Crystal Lake and Jubilee Spring, and the Erie County Historical Society’s Mirror Lake. The model will provide a planning tool to evaluate sustainable environmental improvements to the lower creek system and hydrogeologic resources that can be leveraged to 1) enhance the water quality of the creek, lakes and springs, 2) identify ecosystem restoration opportunities and challenges, 3) understand erosion, deposition and sediment transport processes in order to protect existing and future infrastructure and 4) avoid inducing flooding. USACE will prepare a final report describing the development of the model and its functionality.

Non-Federal Sponsor: Buffalo Niagara Riverkeeper, in partnership with Forest Lawn Cemetery.

Project Benefits: Project partners desire assistance in developing environmental restoration projects in the lower watershed to create sustainable habitat, understand and improve the hydrology of the creek’s lower watershed, improve stream quality, and manage dependent water resources, as identified as a need in the Scajaquada Creek Watershed Management Plan (2004). The integrated water modeling of Scajaquada Creek’s lower watershed will be instrumental in understanding scour and deposition in the creek, as well as provide much needed information needed for the infrastructure and environmental restoration plans in and around the creek/lake system.

Project Status: Model development is underway. .



Estimated Project Costs	
Federal	\$102,143
Non-Federal	\$55,000
Total	\$157,143

Project Milestones	
Midpoint presentation	JUL 2013
Complete model and report	DEC 2013

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