

NYSG resources helped a shoreline property owner make a well-informed decision for managing erosion along Lake Ontario

NYSG Resources Support Integrated Shoreline Redesign

After high water levels on Lake Ontario in 2017, much of a coastal dune along the shoreline near Mannsville, NY, in Jefferson County, was eroded. This put at risk a summer cottage, two neighboring properties, and a seasonal road. Work done in 2018 to repair the shoreline with rock rip-rap failed during a subsequent high water event in 2019. As a result, following an especially strong seiche event in June 2019, there was even greater erosion.

On August 30, 2019, property owner Larry VerWeire attended the Great Lakes Shoreline Erosion Management workshop, developed and hosted by New York Sea Grant (NYSG), in Webster, NY. Working with NYSG Great Lakes Coastal Processes and Hazards Specialist Roy Widrig, Mr. VerWeire requested a site visit to discuss erosion management options in September. He consulted the updated New York Great Lakes Shoreline Contractors fact sheet, and worked with a contractor to redesign his shoreline to provide greater protection against Lake Ontario erosion, without bringing in significant new construction materials to the site.

Because of NYSG's efforts, Mr. VerWeire had access to a combination of NYSG resources that enabled him to make a well-informed decision on managing his property on Lake



Ontario. He applied the knowledge gained in the local workshop and found a contractor from the list of contractors supplied by NYSG. He also benefited from the Erosion Management for New York's Great Lakes Shorelines documen, published by NYSG in April of 2019.





Before and After: The VerWeire shoreline before (top) and after consulting with NYSG re: integrated shoreline management options. Photos: Roy Widrig, NYSG

Today, the VerWeire shoreline represents the NYSG integrated approach to shoreline erosion management:

- apply a step-by-step process of diagnosing a problem (shoreline erosion),
- facilitate consultation with experts (NYSG, contractors), and
- empower stakeholders (property owner) to make well-informed decisions based on science-based knowledge of shoreline erosion dynamics.

Download Erosion Management for New York's Great Lakes Shorelines: www.nyseagrant.org/glcoastal > Publications > Erosion Processes

The Sea Grant Focus Area for this project is Resilient New York Communities and Economies.

New York Sea Grant is a joint program of Cornell University, the State University of New York, and NOAA. Contact: New York Sea Grant Extension, 112 Rice Hall, Cornell University, Ithaca, NY 14853; www.nyseagrant.org. *Project summary was written by Coastal Processes & Hazards Specialist Roy Widrig, 315-312-3042, rlw294@cornell.edu.*