Resilient NY

Minisceongo Creek

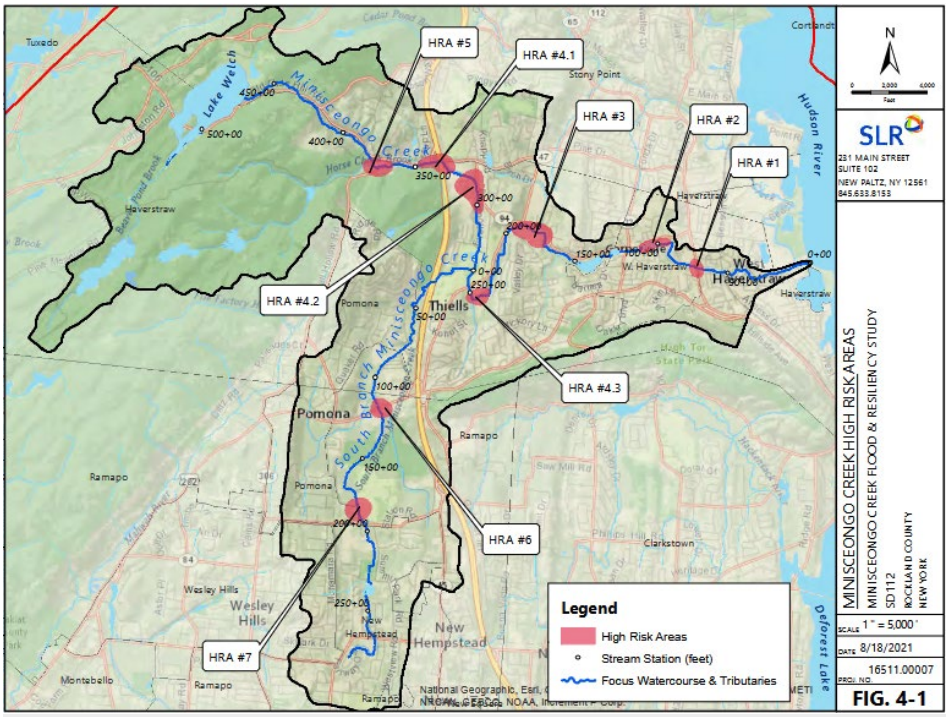
NEW YORK STATE | Department of Environmental Conservation

The **Resilient NY** program develops state-of-the-art studies that investigate the causes of flooding and recommends projects to build resilience in flood-prone communities throughout New York State. These studies account for climate change by incorporating future streamflow projections, anticipated sea level rise, and storm surge in the engineering analysis. The resulting reports identify specific projects communities can choose to undertake that can help mitigate existing and future flooding while simultaneously promoting healthy stream and riparian habitats.

What is the study area?

The Minisceongo Creek watershed is **located in Rockland County** and consists of the Minisceongo Creek mainstem and the South Branch Minisceongo Creek. The mainstem flows generally east from its headwaters at Lake Welch; the South Branch flows north to join with the mainstem in the Town of Haverstraw. The combined creeks continue east to their confluence with the Hudson River.

The study identified seven high risk areas: two in the Village of West Haverstraw, three in the Town of Haverstraw, and two in the Town of Ramapo.



Minisceongo Creek watershed Resilient NY study area

What are the concerns?

Flooding associated with:

- Short-duration, high-intensity storms; and
- Long-duration precipitation events like tropical storms/hurricanes.

Undersized road crossings and narrow, hardened channels that restrict flow during high-water events.

How were recommendations developed?

- Data collection, including public engagement meetings
- Field assessments to characterize the study area and identify potential project areas
- Hydrologic and hydraulic modeling to quantify flood reduction benefits
- Findings synthesized into final report

What are the recommendations?

The report identifies **12 recommendations**, including replacing undersized crossings, removing obsolete infrastructure, and creating floodplain benches. In addition, the report contains basin-wide strategies, such as acquiring flood-prone properties and floodproofing.

Recommendation Location	Description	Rough Order of Magnitude Cost
HRA 1	Replace Route 9W Bridge and Create Floodplain Bench	>$5,000,000
HRA 2	Remove Building #26A at the Garnerville Arts and Industrial Center	$1,000,000–$5,000,000
HRA 2	Install Floodplain Benches at Viohl Park	$1,000,000–$5,000,000
HRA 2	Remove or Lower Suffern Lane Dam	$1,000,000–$5,000,000
HRA 3	Install Floodplain Bench at Thiells School	$1,000,000–$5,000,000
HRA 4	Realign and Replace Storrs Road Bridge	$1,000,000–$5,000,000
HRA 4	Remove Derelict Bridge Crossing	$500,000–$1,000,000
HRA 4	Upgrade 4WD Road Crossing	$1,000,000–$5,000,000
HRA 5	Replace Bridge, Restore Channel and Floodplain	>$5,000,000
HRA 6	Inspect and Maintain Route 202 Crossing	<$100,000
HRA 7	Replace Upstream South Camp Hill Road Crossing	$100,000–$500,000
HRA 7	Replace Downstream South Camp Hill Road Crossing	$100,000–$500,000

What funding opportunities are there?

Opportunities to fund recommendations found in this Resilient NY report include, but are not limited to:

- **NYSDEC Resilient Watersheds Grant program**, funded by the 2022 Clean Water, Clean Air, and Green Jobs Environmental Bond Act; and
- **NYSDEC Non-Agricultural Nonpoint Source Planning** and **MS4 Mapping Grant and Water Quality Improvement Project**, supported by New York's Environmental Protection Fund.

For additional funding opportunities, please review this Resilient NY report or use the Funding Finder (https://environmentalbondact.ny.gov/pages/funding-opportunities).

CONTACT INFORMATION

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