



Danvers Pond Dam Removal & Stream Restoration

In partnership with:



\$499,254 in grant funds provided by the Great Lakes Restoration Initiative (GLRI) through the U.S. Environmental Protection Agency (USEPA) for design & implementation

The Danvers Pond Dam Removal & Stream Restoration Project:

- Removed existing dam & created a naturalized water course.
- Stabilized erosion using bioengineering & naturalizing techniques.
- Restored impoundment bottom lands as open area connected to the stream to slow & store flood flows.
- Created/improved habitat & increased water quality in the creek.

In 2010 the Alliance of Rouge Communities (ARC) received grant funding from the U.S. Environmental Protection Agency (USEPA) Great Lakes Restoration Initiative (GLRI) for the Danvers Pond Dam Removal & Stream Restoration project as part of its effort to delist the Rouge River Area of Concern (AOC). Providing fish passage at Danvers Dam had been identified by the Rouge River Advisory Council (RRAC) as one of the highest priority projects within the watershed to address the habitat and population BUIs within the AOC. Efforts to remove additional barriers to the fish in the Rouge River AOC include the completed GLRI NOAA-funded Wayne Road Dam and the ongoing GLRI-funded Henry Ford Estate Fishway project.

The Danvers Pond Dam Removal & Stream Restoration Project is located on city-owned property at Pebble Creek, a tributary of the Main Rouge River. This project consisted of the finalization of the design and construction contract documents, permitting, and construction of the Danvers Pond Dam removal, the construction of a naturalized water course and restoration of the floodplain. Prior to implementation of the project, the dam acted as a barrier to fish passage as well as promoted the accumulation of sediment within the pond, which contributed to the degradation of the creek.

The goals of the project were to create and improve habitat and increase water quality in the creek while making progress toward eliminating the Benthos and Fish and Wildlife Habitat Beneficial Use Impairments (BUIs) for the Rouge River Area of Concern (AOC). The project also aimed to fulfill local and subwatershed goals by improving the quality of the ecosystem and restoring approximately two acres of habitat for fish and terrestrial wildlife.



Danvers Pond dam prior to restoration



Danvers Pond prior to restoration



Conceptual design

For more information about other ARC activities visit our website at:
www.allianceofrougecommunities.com

This project is funded through a grant from the U.S. Environmental Protection Agency Great Lakes Restoration Initiative (grant # GL-00E02700-0)

With the removal of the dam, two acres of woodland and wetland habitat were restored and preserved, and 283 linear feet of naturalized stream channel was created which improved habitat conditions for fish and wildlife using the Pebble Creek stream corridor. Additionally, the removal of the dam and the enhancements to Pebble Creek now allows unencumbered fish passage for Pebble Creek, which is approximately 6.5 miles, and creates a natural buffer of native vegetation between developed private property and the stream corridor.



During construction



After construction



Riffles & pools created in Pebble Creek

Project Outcomes

- Allowed for unencumbered fish passage for Pebble Creek.
- Sedimentation within the creek has been reduced.
- Two acres of woodland & wetland habitat were restored.
- Approximately 300 linear feet of naturalized stream channel was created which improved habitat conditions for fish & wildlife.
- Created a natural buffer between developed private property & the stream corridor.
- Minimized the amount of soil erosion & sedimentation.
- Improved and maintained the river ecosystem for wildlife & restored/maintained aesthetically appealing conditions.
- Fulfilled a goal of the City of Farmington Hills SVPPPI.
- Improved wildlife usage: whitetail deer, great blue herons, small fish & crayfish observed.



Stream restoration complete

About the Alliance of Rouge Communities

The ARC is a 501(c)(3) non-profit organization consisting of local municipalities, counties, educational institutions and stewardship groups working together to improve the Rouge River. Founded in 2005, the ARC is funded by membership dues from local governments and supported by grants. The ARC and its partners work cooperatively to meet water quality requirements mandated by the state's stormwater permit and to restore beneficial uses, such as canoeing, fishing and other recreational activities, to the Rouge River. That means better water quality for less cost to its members!

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