



Winnetka Avenue Ponds Improvement Project

Featured Project

A stormwater improvement project to expand an existing pond and to replace an erosion-prone ditch with a second stormwater pond was completed in 2009 by the City of New Hope with financial assistance from the Shingle Creek Watershed Management Organization (WMO).

This project -- called the "5700 Winnetka Avenue Pond Improvements Project" -- had a well-planned history with the City of New Hope and the WMO, and it is a targeted best management practice to fix a locally identified, high-priority issue.

Stormwater runoff is a primary source of water quality problems in urban areas. Stormwater ponds are one way to protect and restore water quality by storing surface water runoff and settling out pollutants, instead of sending surface water runoff directly into lakes, rivers or streams – in this case North Twin Lake. In fully developed areas like New Hope, finding available land to construct ponds is difficult and often expensive.



The project area is bound by high-density residential lots (multi-unit buildings) and city thoroughfares. Pond expansion was maximized to the extent of the city-owned easement area. This project was cost-effective because it utilized an existing stormwater pond area and is large enough to handle additional stormwater runoff to be diverted into it in a future project phase.

The City of New Hope initially listed the project in its capital improvement program in the late 1990s. The city completed a feasibility study while partnering with the Shingle Creek WMO for project design. As a result the WMO agreed to amend their watershed management plan to include this specific project and to provide 25 percent funding for expanding the pond above and beyond the minimum WMO stormwater standards. The project was also listed in the Twin/Ryan Lakes Total Maximum Daily Load (TMDL) implementation plan. It received a Clean Water Legacy grant through the Board of Water and Soil Resources in fiscal year 2009.



Shingle Creek Watershed

Location: 5700 Winnetka Avenue, north of the intersection of Winnetka Avenue and Bass Lake Road, City of New Hope, Hennepin County

Partners: City of New Hope, Shingle Creek WMO, Minnesota Department of Transportation (MnDOT) and BWSR.

Project Timeline: Grading began in the fall 2008. Pond grading improvements were completed by March 1, 2009. Seeding and site stabilization were completed July 2009.

BWSR Featured Project



Project Costs:

Construction costs	\$99,857
Site stabilization/seeding/3 years maintenance	\$30,929
Approximate technical, engineering, and project management costs	\$57,818
TOTAL PROJECT COSTS*	\$188,604

* Including feasibility study

Project Funding Sources:

FY2009 Clean Water Legacy Grant	\$55,155
Shingle Creek WMO*	\$48,789
Metro State Aid (MNDOT)	\$69,928
City of New Hope	\$14,732

*More possible based on the amount of new, untreated stormwater runoff diverted to the pond.

Keys to Success: This project highlights the importance of local partnerships and the connection between the local watershed plans and TMDL Implementation plan. The project also demonstrates the value of maintaining a current water plan via amendments, adding specific projects if necessary. The City of New Hope reviews its 5-year capital improvement program every two years. The Shingle Creek WMO frequently amends its Watershed Management Plan, which allowed them to partner with the city of New Hope. The plan amendments have been a factor in the WMO receiving hundreds of thousands of dollars in state grants for water quality projects.

BWSR roles: In addition to awarding the Clean Water Legacy grant, BWSR reviews and approves the WMO's Watershed Management Plan and subsequent amendments.

Measurable Outcomes: Modeling predicts an annual phosphorus reduction of 17 pounds, which is an estimated removal efficiency of 27 percent, from the tributary area to North Twin Lake. An additional 1.2 acre-feet of wet volume was created.

For more information: Guy Johnson, Public Works Director, City of New Hope (763) 592-6777 or Jason Quisberg, Project Manager, Bonestroo Inc. (651) 604-4938