



Project 5-4 Kingsbury Creek Channel Restoration

Background: The Lake Superior Zoo is experiencing sediment buildup in the pond above Grand Avenue which is an impoundment of Kingsbury Creek. In addition, portions of the rock and concrete walls along the stream are failing, preventing visitors from being able to interact with the stream. The dam is part of the culvert abutments at the Grand Avenue stream crossing. The Grand Avenue culvert is scheduled to be replaced by MNDOT in 2013.

Problem Statement: This structure is a fish barrier to trout as well as other species from the estuary that might utilize Kingsbury Creek for spawning (smallmouth bass juveniles have been captured below this barrier). The Lake Superior Zoo is interested in restoring the stream, and creating more opportunities for programming with kids to interact with the stream. A number of the constructed walls along this reach are failing.

Goals: Restore fish passage by creating a natural channel through the existing impoundment when MNDOT replaces the Grand Avenue culvert. Restoration of connectivity and stream banks would allow for increased educational programming related to the stream environment, as well as potentially allowing the addition of angling programming for youth/families.

Priority: High

Task Duration: 2 years (design/permitting in 2012, construction in 2013 in conjunction w/culvert replacement)

Potential Mechanism: GLRI, Lessard Outdoor Heritage, Conservation Partners Legacy, USACE

Potential Partnering Organization(s): Lake Superior Zoo, City of Duluth, DNR, DOT, USACE

Estimated Cost: \$250,000

Comments: DOT will cover the costs for construction of a culvert which provides fish passage.

Special Considerations: Project needs to be completed in 2013 when DOT replaces culvert.

Accomplishments:

Measure(s) of Success: Restoration of stream connectivity and associated benefits.

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Vision Statement: Maintain, protect, and restore healthy cold water ecosystems with relatively stable flows and a diversity of habitat for fish and wildlife to enhance our quality of life.

For project information: www.lrcd.org/links/lsc_projects.htm