



Bassett Creek and Plymouth Creek Stabilization Projects



Clean Water Funds: 2010

Clean Water Grant	\$360,000
Leveraged Funds*	\$1,601,300
Total Project Budget	\$1,961,300

* Leveraged Funds include required 25% local match

Targeted Water:

Bassett Creek and Plymouth Creek

Project Sponsor:

Bassett Creek Watershed Management Commission

Partners:

Bassett Creek Watershed Management Commission, City of Golden Valley, City of Plymouth

Grant Period:

January 2010 - December 2011

Project Contact:

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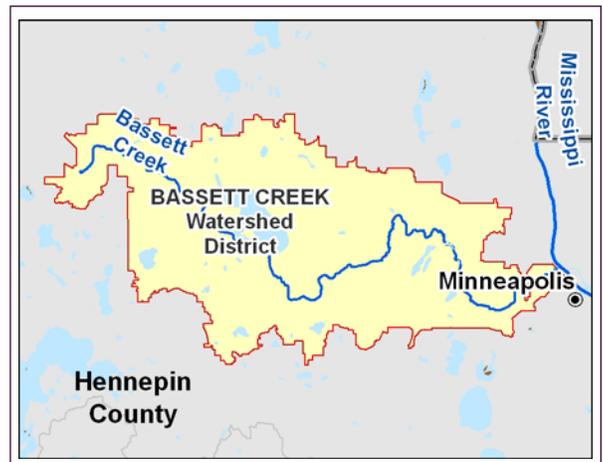


Project Narrative

Bassett Creek and its tributaries flow through the urbanized landscape of eastern Hennepin County on their way down to the Mississippi River. Over time, the creek has eroded its banks at several points and the resulting soil moving downstream has increased the turbidity (cloudiness) and phosphorus content of the water in the creek. Bassett Creek Watershed Management Commission (BCWMC) partnered with the cities of Golden Valley and Plymouth to repair the eroded stream banks to eliminate this source of pollutants.

With a grant from the Clean Water Fund to the BCWMC, both cities began construction in the winter of 2010-11 on projects that will stabilize the stream. In some locations, stream banks will be graded to be less steep and deep-rooted native vegetation will be planted to stabilize soils. In other locations, grade stabilization structures will be added to the streambed, creating multiple pools in the stream. This will slow down the water and make it less prone to erode the banks. At some stormwater outlets, the eroded streambed will be stabilized. As part of the Plymouth Creek restoration, the original stream pattern will be reconstructed to allow for more frequent inundation of wetlands, which will increase infiltration and transpiration losses. More vegetation and flatter slopes on the banks will allow more stormwater runoff to infiltrate into the soil, helping keep water on the land.

These changes will reduce phosphorus and sediment loads to Medicine Lake and the lower creek. The Bassett Creek Main Stem project will annually keep 96 pounds of phosphorus and 200,000 pounds of total suspended solids from washing downstream and help reduce the impairments to Bassett Creek. The Plymouth Creek project will annually keep 200 pounds of phosphorus and 76,000 pounds of total suspended solids from flowing into Medicine Lake.



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Golden Valley: Severe erosion and city inspector



Golden Valley: Severe erosion undercutting tree roots



Plymouth Creek: Severe erosion to be repaired