



Lac qui Parle-Yellow Bank Watershed District – GIS Terrain Analysis FY 2013 Clean Water Fund, Accelerated Implementation Grant

<http://www.bwsr.state.mn.us/cleanwaterfund/stories/>

Clean Water Fund Grant
Competitive Grant \$66,572.00

Leveraged Funds
Match \$16,643.00

Funds Returned to State
Type \$.00
Date Fund Returned: NA

Grant Period (incl. extensions)
From: 2/12/2013
To: 12/31/2015

State Cost Share Expenditures by Category

Administration/Technical

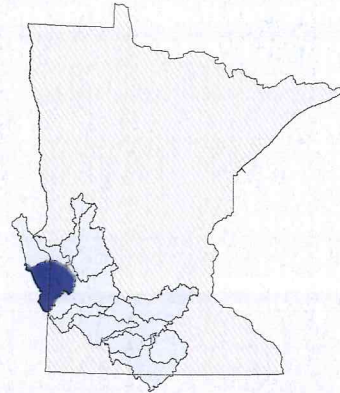
Administration/Coordination	\$0
Technical/Engineering Assistance Milestone 1	\$13,314.40
Technical/Engineering Assistance Milestone 2	\$0
Technical/Engineering Assistance Milestone 3	\$0

Total Expenditures \$13,314.40

PROJECT CONTACT

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Lac qui Parle-Yellow Bank
Highlighted in blue.



Overall Project Description

The Lac qui Parle-Yellow Bank Watershed District has contracted services with the Water Resource Center at the Minnesota State University, Mankato, MN. Rick Moore, Watershed Research Scientist will complete the GIS terrain analysis. There are three milestones in this project. Milestone 1 includes the creation of burnlines/culvert inventory and hydrologically corrected digital elevation models (DEM's). From the burnlines, drain tiles and other data will be incorporated into the GIS database and will result in hydrologically corrected DEM's. As of December 31, 2013 work is approximately 85% completed of the initial phase of identifying culverts that are obvious on the landscape. Ten Mile Creek had a more thorough analysis completed for a group presentation of this project. Milestone 2 includes the calculation of secondary attributes using the hydrologically corrected DEM's. These include stream power index (SPI) and compound topographic index (CTI) layers that will be used to determine locations of high erosion and depressional areas in the watershed. The indexes will be figured for each catchment area including bluff and ravine areas. Milestone 3 identifies focus areas for different conservation BMP's. This includes identifying the focus areas from the analysis completed earlier and will identify focus areas for different BMP's based on LiDAR analysis. It will identify sensitive focus areas from the SPI and CTI layer. Outcomes include the identification and mapping of the highly sensitive focus areas. No work has been completed in Milestone 2 and 3 except for the preliminary work in Ten Mile Creek. Administration and coordination of this project is in-kind from the Lac qui Parle-Yellow Bank Watershed District

Accelerated projects target Implementation