



## Brunswick Township Erosion Control Project

**Project Title** Brunswick Township Erosion Control Project

**Project Number** 2009-05

**Project Leader** Paul Kollar

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**Problem** An old corduroy road across a deep swamp in Brunswick Township failed, with logs visibly coming through the road's surface. The township built a lightweight tire fill on the existing 19-foot-wide road, which had to be raised a minimum of 4 feet. The tire fill had to be placed on a fabric stabilizer, and a silt fence was required between the construction area and the swamp to prevent damaging the wetland. However, it was difficult to properly anchor the silt fence to the ground in the swamp area.

**Solution** Brunswick Township extended the stabilization fabric to the construction limits, attaching it to two-by-two stakes to form a positive erosion control barrier.

**Procedure** A working relationship was established between the project consultant and the tire supplier, First State Tire in Isanti, Minnesota. First State Tire created the steps needed to place the fence and developed strategies for providing stability to the fence and posts. All procedures were developed to comply with the required storm water permit issued by the Minnesota Pollution Control Agency.

**Results** The placement and staking of the fence served several purposes during project construction. It established a guideline for tire placement, made the placement of dirt on top of the tires easier to control, and allowed for easier slope reformation when necessary. In addition, any run-off damage done prior to solid establishment of the slope seeding was controlled. After the construction project's completion, the slopes were showing some signs of ditching but no sediment was reaching the wetland area.

**Approximate Cost** \$67,000 (\$10,000 approved for project)

**Implementation** The project began in July 2009 and was completed in October 2010. The placement of the fence has remained stable, despite areas of drainage. The fence was designed to be easily removable in two or three years, once the roadbed and slopes have settled. This solution for erosion protection could be extended to other county and township projects where fabric stabilization is used.

**Status** Complete

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