



# Water Bulletin



Civil • Water Supply • Municipal

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## Eagle Lake/Mankato Interconnection Study Mankato, Minnesota

The City of Eagle Lake is located just east of the City of Mankato. The City of Eagle Lake is growing and is in need of new water supply. The City considered the option of drilling a new well. After reviewing this option, the City decided to request water service from Mankato. The City of Mankato presently provides sanitary sewer service to Eagle Lake.

The City of Mankato selected Progressive Consulting Engineers, Inc. (PCE) to complete a feasibility study for supplying Eagle Lake with Mankato water. The goal of the feasibility study is to determine the capital improvements needed to interconnect the two systems and how the Eagle Lake water system will operate during all operating conditions when supplied with Mankato water.

The project also includes developing a preliminary cost of service study and water rates for supplying Mankato water to the City of Eagle Lake.

## Water Distribution System Modeling Rochester, Minnesota

Rochester Public Utilities retained PCE to complete an analysis of the water supply and distribution system to ensure that the future growth in customer water demand can be met. The analysis will be completed in phases over the next four years. Each phase will include an evaluation of supply, demand, and storage needs using WaterCad modeling software. PCE will make recommendations regarding the needs of the expanding system by analyzing the modeling results.

The 2006 phase will include the evaluation of three study areas:

1. Northeast Hadley Valley Area
2. Northwest High Level Area
3. Rose Harbor SE High Level Area

The 2006 phase is scheduled to be completed by mid-summer 2006.

## Water and Sewer Rate Study Grand Rapids, Minnesota

The last water and sewer rate study was completed about five years ago by PCE. The Grand Rapids Public Utilities Commission (GRPUC) directed PCE to update the water and sewer rate study to account for major changes in the capital improvement plan and rising costs.

The City is growing and has annexed some areas, which will be served by sanitary sewer and water. The GRPUC will be expanding the capacity of both the water treatment plant and the wastewater treatment plant and will be installing new watermains and sanitary sewers to serve new customers. This infrastructure expansion does not benefit existing customers. It is prudent that new customers should pay for the system expansion by water availability charge (WAC) and sewer availability charge (SAC). GRPUC directed PCE to develop WAC and SAC as part of the study.

The study is scheduled to be completed by the end of May 2006 with new rates and charges to be reviewed and implemented by GRPUC by the end of the year.

## Presentation Naeem Qureshi, P.E.

A paper titled "Operator Involvement In Plant Design" authored by Naeem Qureshi, Project Manager and Jeff Yeschick, Project Engineer has been accepted for presentation at the 2006 Annual American Water Works (AWWA) Conference in San Antonio, Texas in June 2006.



The paper describes the steps taken to involve the operator in design decisions and how operator buy-in resulted in markedly improved results. The paper is part of the AWWA small system forum and is scheduled for June 13, 2006.



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