

Water Bulletin

Progressive Consulting Engineers, Inc.
Civil • Water Supply • Municipal

November 2008

Water Distribution System Model Update City of Brooklyn Park, Minnesota

The City of Brooklyn Park retained PCE to complete a water distribution system model update for their water system. The existing model will be modified to add future pipes, additional water treatment plant (WTP) capacity and new wells. An analysis will be completed to determine the available fire flow, velocities and pressure in the system. The model will be completed to verify if it would be beneficial to add a new WTP instead of water storage at the north area of Brooklyn Park near the existing Target site to serve the future community. The analysis will determine what size of WTP or water storage would be required in the future.

A report will be prepared based on the model analysis. PCE will work closely with the City's personnel to ensure the model is accurate for the existing scenarios and conditions. The report will be completed by the end of November 2008.

Comprehensive Water Quality Study & System Plan City of Cloquet, MN

The City of Cloquet selected PCE to complete a comprehensive water quality study and system plan. The last comprehensive water plan is over 10 years old. An overall study of the City's source, treatment, storage, and distribution elements will identify and address deficiencies in the current system encompassing the goals and objectives of this project. The study will address capital improvements needed to address the identified deficiencies. The water quality in the City well system meets all of the primary requirements of the Safe Drinking Water Act. The water also meets all of the Secondary Drink Water Standards except the levels of manganese in Wells No. 8 and 11, which are 500 ug/L and 160 ug/L and exceed the secondary standard of 50 ug/L. This gives rise to some water quality complaints. Secondary standards are aesthetic standards and are not health related.

The plan will include an accurate projection of future demands and where in the City the demands will be exerted. This will determine the size and location of additional storage facilities, and sizing and general location of future trunk water mains. The project includes developing water quality objectives in consultation with the City staff, preparing a process diagram, sizing the treatment units and determining the probable construction costs and rate increases needed to fund the improvement. The report is expected to be presented to the City Council in January 2009.

Work Flow Study City of St. Louis Park, MN

The City of St. Louis Park retained PCE to complete a work flow study of the utilities operations and maintenance activities. The study includes a review of skills, resources, work plans, and priorities. PCE will assist utility management and staff in developing work flow diagrams and a skills assessment worksheet. PCE and the utility will identify potential efficiency enhancements and priorities. The goal is to identify efficiencies and to note gaps in resources (technology, equipment, and staff). The study will be completed by the end of December 2008.

Corrosion Study City of Brooklyn Park, Minnesota

The City of Brooklyn Park selected PCE to conduct a corrosion study to prepare short-term and long-term options for external water main corrosion mitigation. PCE will also suggest guidelines to assist the City with the development of a corrosion mitigation plan, water main replacement program, improved design and construction standards, or a combination of these options.

Naeem Qureshi, P.E. Received L. N. Thompson Award

Naeem Qureshi, P.E., President of Progressive Consulting Engineers, Inc. received the L.N. Thompson Award at the American Water Works Association (AWWA) Minnesota Section Annual Conference in Duluth, Minnesota in September 2008. The Leonard N. Thompson Award was established by the North Central Section of (AWWA) in remembrance of this outstanding individual. The award is made annually to a Minnesota Section member who typifies the standards that were emblematic of Thompson's contributions to the Section and the water supply industry.



David Knaeble

David Knaeble has joined PCE as a design engineer in July 2008. David received a Degree in Civil Engineering from the University of Minnesota in the spring of 2006. He has previously worked for a local consulting firm.



Progressive Consulting Engineers, Inc.
6120 Earle Brown Drive, Suite 629, Minneapolis, Minnesota 55430
Phone: (763) 560-9133 Fax: (763) 560-0333
www.pce.com E-mail: pce@pce.com
Contact: Naeem Qureshi, P.E. • Adam Kramer, P.E. • Lance Newman, P.E. • Brian Zinnel, P.E. • Nuzhat Qureshi