

# MASTER PLAN UPDATE AND HYDRAULIC MODEL

**Owner:** Biddeford & Saco Water Company  
Biddeford, ME

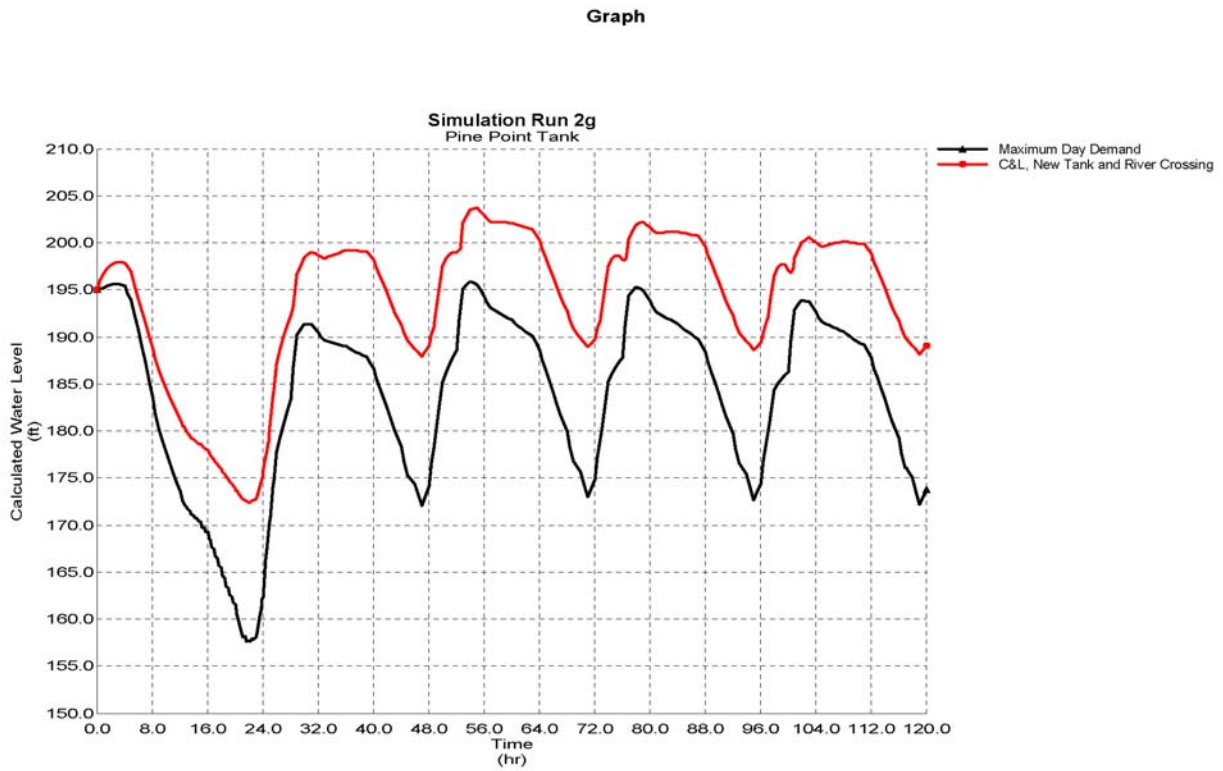
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**Key Personnel:** David A. Jacobsen, P.E.  
Brian P. Giovanoni

## PROJECT DESCRIPTION

Biddeford and Saco Water Company is an investor-owned utility which supplies drinking water to Biddeford, Saco and Old Orchard Beach, Maine. The system supplies about 5 mgd of treated water from the Saco River to a year-round population of about 47,000. Amory Engineers updated our previous system model using Haestad Methods (now Bentley) WaterCAD version 6.5. Using this model, we evaluated various system improvements to determine the most beneficial capital improvements for resolving identified deficiencies. Results were presented in a master plan report.



## MASTER PLAN UPDATE

**Owner:** Water Division, Department of Public Works  
Easton, MA

**Contact:** John Marsh, Water Superintendent  
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**Telephone:** 508-230-0850

**Key Personnel:** David A. Jacobsen, P.E.  
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### PROJECT DESCRIPTION

Amory Engineers prepared the first master plan of the Easton water system in 1976 and has done four updates since then, the latest in 2009. The Town of Easton serves its 24,000 population from seven well sources and two storage tanks through about 160 miles of watermains. Our latest update included projection of water use, adequacy of supply and storage, evaluation of unaccounted-for water loss and a projection of the Town buildout population. The plan included a 5-year phased capital improvement program with estimated costs.

Figure 4. Maximum-Day-to-Average-Daily Water Use Ratio

