Ordinance 10-06

Presentation to
City of Bloomington Common Council

April 28, 2010

WATERWORKS CAPITAL IMPROVEMENTS PROGRAM

City of Bloomington Utilities Department

Need for Capital Improvements

Our mission is to reliably deliver high-quality water to residential customers and to the employers in our community.

- Protect and enhance our public water system
- Meet current and future water demands
- Upgrade a 43-year-old plant to meet current standards and regulations
- Provide a second water line for reliability
- Attract and maintain economic development

History of Monroe Water Treatment Plant Improvements

1967	Plant and Intake Facility placed into operation at 18 mgd
1988	Improvements and expansion to 24 mgd
2002	Standby engine generators installed
2002	Residuals Management Facilities constructed
2003	Monroe Water Treatment Plant Improvements
2004	Intake Facility Improvements
2008	Filter Rehabilitation

Long Range Water Capital Planning

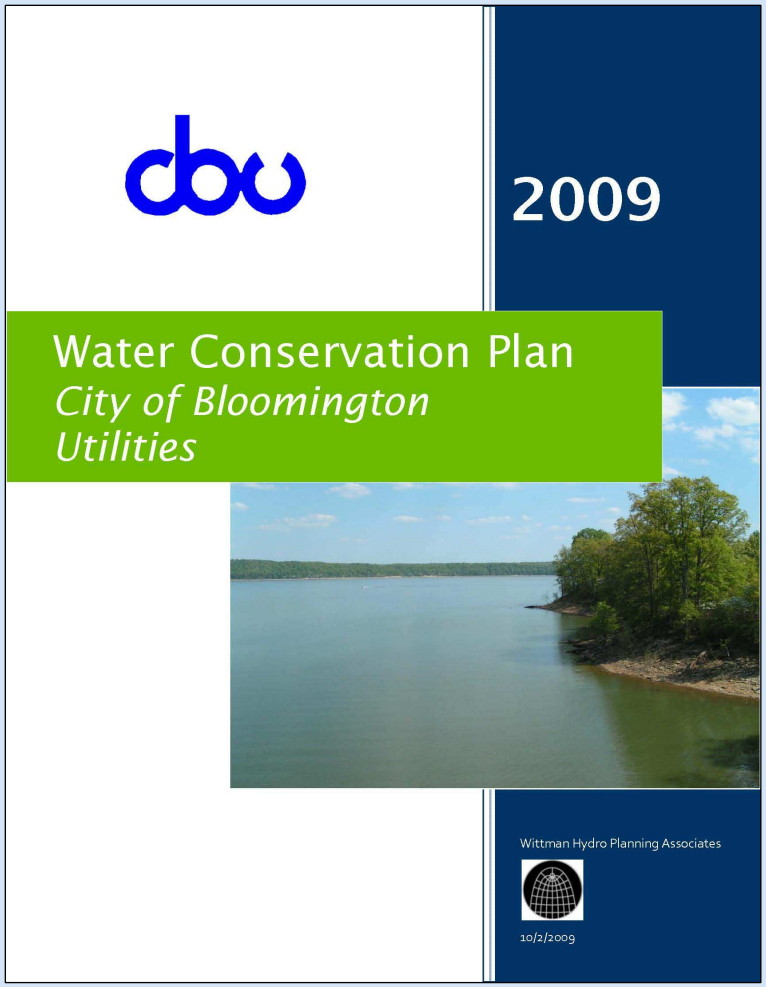
2001 Long Range Waterworks Capital Planning Study

2003 Long Range Water Capital Plan Finalized

2007 Water Supply Evaluation Report

2009 City of Bloomington Water Conservation Plan

City of Bloomington Water Conservation Program



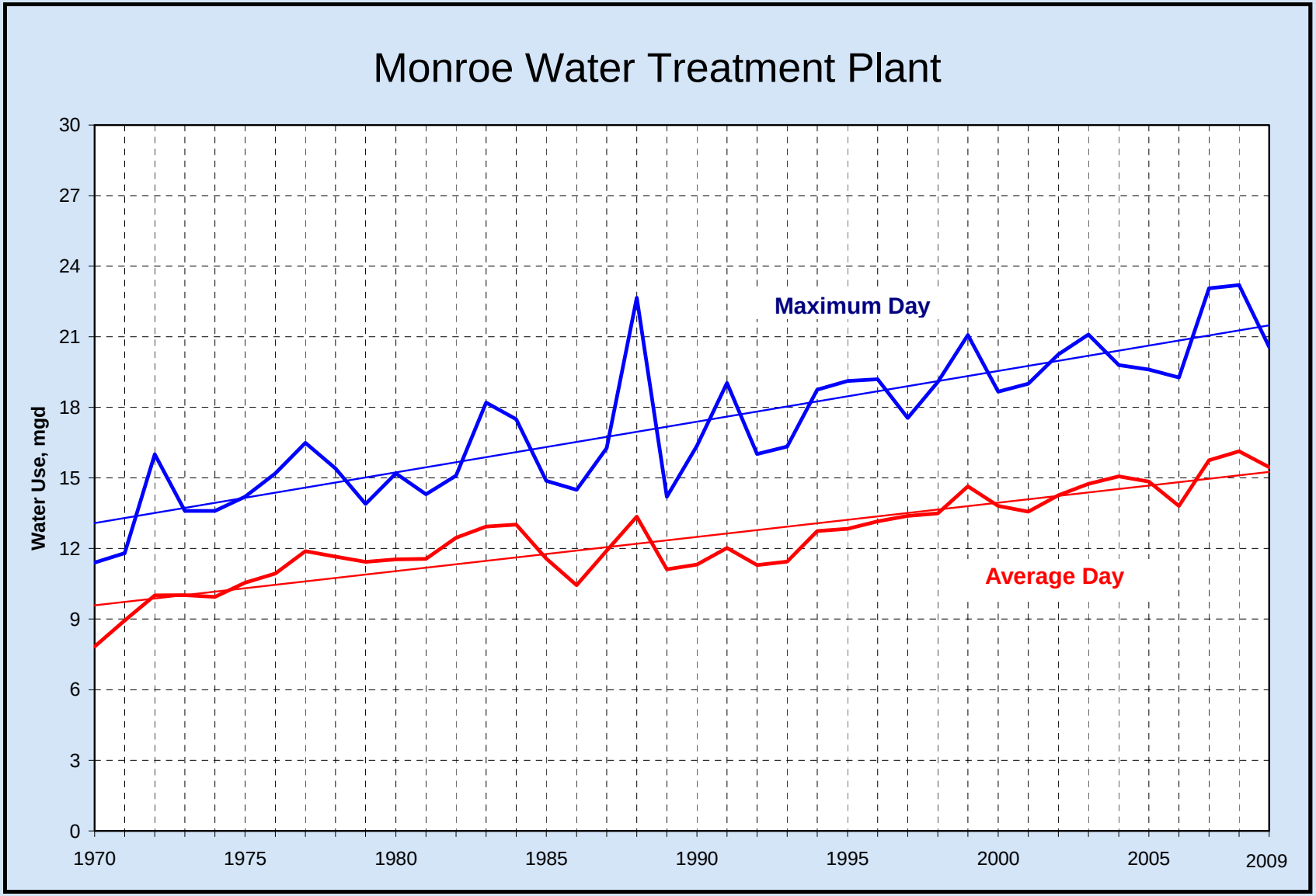
Capital Improvements Overview

Mike Bengtson, Assistant Director
City of Bloomington Utilities Department

Water Usage May Exceed System Capacity

- Water demands have steadily increased
- Current Plant Capacity is 18 mgd with one filter out of service
  - 18 mgd was exceeded 149 days in 2007 - 2009
  - 21 mgd was exceeded 19 days in 2007 - 2009
- Maximum Daily Demands
  - September 5, 2007 23.1 mgd
  - August 12, 2008 22.8 mgd
  - August 22, 2008 23.2 mgd
  - September 2 & 3, 2008 22.8 mgd
  - September 16, 2009 20.6 mgd

Historical Water Production



Recent Example of Operational Stress

August 6 - 10, 2008

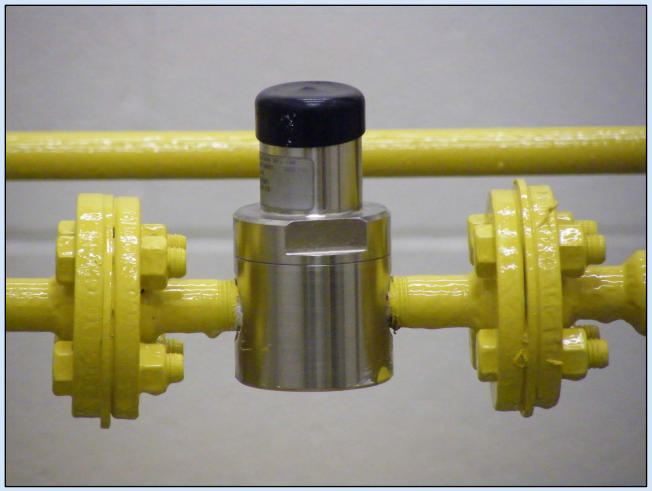
Plant's South Basin Train is taken out of service due to broken mechanism.

Plant's production is cut in half to 12 mgd during the 4-day repair.

Recent Example of Operational Stress

December 15 - 16, 2008

Plant's ammonia backpressure valve failed.



Results in full plant shut down to identify problem.

Recent Example of Operational Stress

November 30 - December 13, 2009

Alum chemical feed pipe plugged. Full plant shut down for 8 hours. The North Settling Basin was out of service.

Plant production is cut in half to 12 mgd during the 13 day repair.

Recent Example of Operational Stress

December 14, 2009

16-inch water main break on 17th Street.

Utility crews work 12 hours to replace pipe - water loss is 3 MG

Proposed Capital Improvement Projects

Contract One
Monroe Water Treatment Plant Expansion

Contract Two
Southeast Water System Improvements – Section I
Southeast Pump Station and Tank

Contract Three
Southeast Water System Improvements – Section II
Southeast Transmission Mains

Scope of Capital Improvements

Contract One - Monroe Water Treatment Plant Expansion

- Increase Low Service PS from 24 mgd to 30 mgd firm capacity
- Flocculation / sedimentation basins from 24 mgd to 30 mgd
- Add two media filters to provide 30 mgd firm capacity
- Increase Transfer PS from 24 mgd to 30 mgd firm capacity
- Increase High Service PS from 24 mgd to 30 mgd firm capacity

Scope of Capital Improvements *(Continued)*

Contract Two - Southeast Pump Station and Tank

- New 12 mgd Southeast Pump Station expandable to 24 mgd
- New 2 MG Southeast Tank

Contract Three - Southeast Transmission Mains

- Second raw water pipeline from Intake Facility to the Plant
- Second pipeline from the Plant to the distribution system

  Approximately 39,000 linear feet of transmission mains

Questions / Comments