

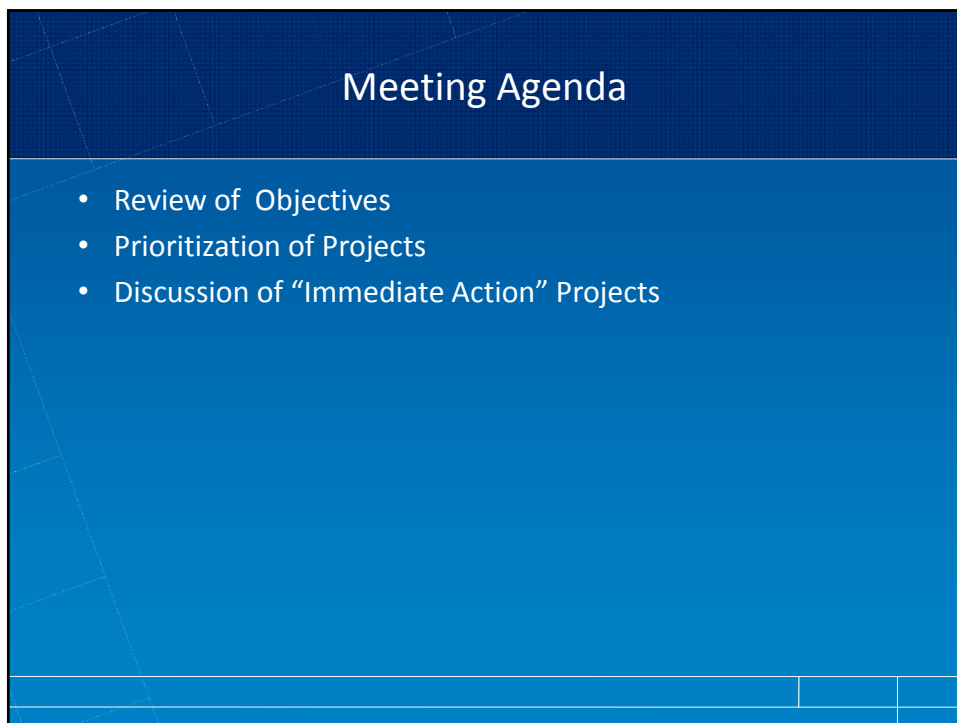
The slide features a blue background with a central image of a park scene. The image shows a pond with a fountain, a building, and children. A woman in a straw hat is drinking water from a glass, overlaid on the image. The text 'City of Franklin' is in a white script font, and 'Integrated Water Resources Plan' is in a white sans-serif font. The date 'March 27, 2012' is in the top right. 'BOMA Update' is in the middle right. The 'CDM Smith' logo is in the bottom right.

*City of Franklin*  
Integrated Water Resources Plan

March 27, 2012

BOMA Update

CDM  
Smith



The slide has a blue background with a white grid pattern. The title 'Meeting Agenda' is centered at the top. Below it is a bulleted list of three items. At the bottom, there is a table with two columns and two rows.

## Meeting Agenda

- Review of Objectives
- Prioritization of Projects
- Discussion of "Immediate Action" Projects




## Critical/Immediate Action Projects

### Regulatory Driven Projects

- Distribution water quality improvements (D/DBP)
- Water treatment plant improvements (LT2ESWTR)

### Growth/Capacity Projects

- Expansion of WWTP capacity to 16 MGD
- Biosolids facilities for 16 MGD
- SCADA (water/wastewater systems)
- Automated metering infrastructure (AMI)

## Regulatory Driven Projects

- Distribution System Water Quality Improvements
  - Required to meet D/DBP rules for HAA and THM management
  - Aimed at reduction in water age in distribution system
  - \$2 million for multiple projects over next 2 fiscal years
- Water Treatment Plant Improvements
  - Upgrades to meet LT2ESWTR (*Cryptosporidium*)
  - Increased reliability and redundancy
  - Upgrades aging equipment
  - Expansion to 4 MGD results in operational cost savings



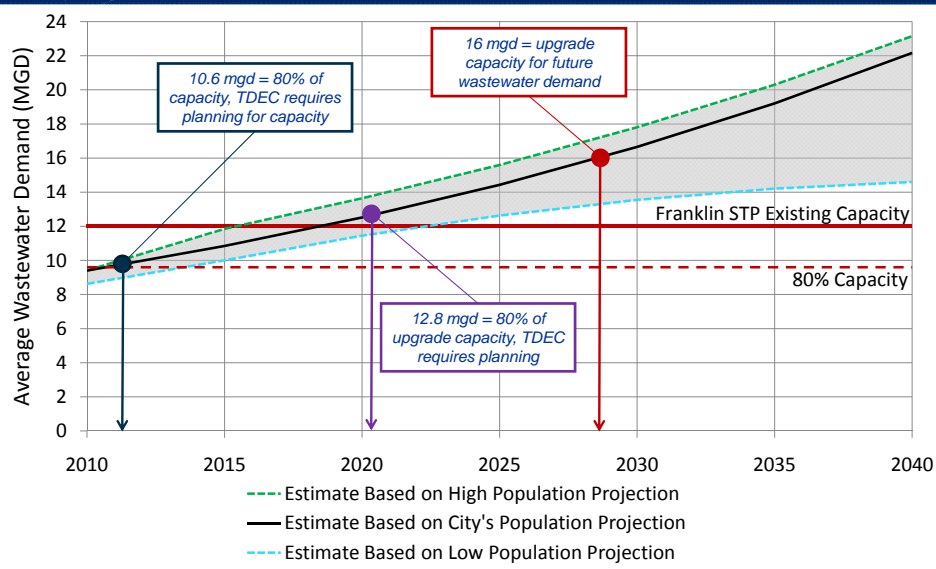
## Costs of Water Production

Costs per 1000 gallons:

Wholesale Purchase (2012)	\$ 2.18
Franklin (2010 Treatment Cost)	\$ 1.47
Franklin (Projected Cost for 4 MGD)	\$ 1.33

**Potential Annual Operations Cost Savings  
for 4 MGD Plant Expansion  
\$ 350k - \$ 450k**

## Franklin Wastewater Demand Projection



## Growth/Capacity Projects

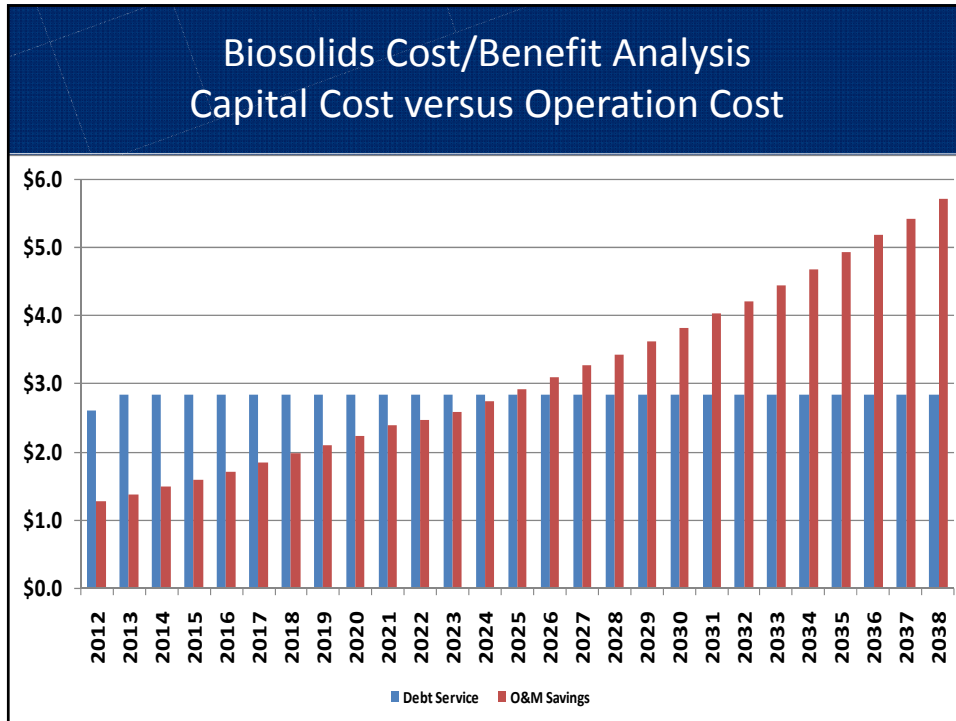
- Expansion of WWTP capacity to 16 MGD
  - Existing WWTP has hydraulic restrictions at peak flows
  - Existing WWTP has process equipment nearing end of useful life
- Adaptive management options
  - Existing plant site
  - Potential south plant
- Existing plant estimated to be at capacity in 2017-18



## Growth/Capacity Projects

- Biosolids Facilities for 16 MGD
  - Existing biosolids process is risk to operations
  - Process must be expanded to accommodate City growth
  - Key driver is developing a sustainable, long-term solution with beneficially reusable product





### Growth/Capacity Projects

- SCADA (water/wastewater systems)
  - Existing system is antiquated and data is not accessible
  - Can expand system with existing staff
  - Improved services such as improved emergency response
- Automated metering infrastructure (AMI)
  - Real time tracking of water demands
    - Consumption trends
    - Potential leaks
    - Reverse flow
  - Benefits to system customers
    - Allows Franklin to be proactive in addressing water loss
    - Improves customer service, billing accuracy, emergency response
    - Reduces operating expenses and risks associated with meter reading