

Rate Case Frequency

Water

- Infrastructure replacement / modernization
- \$335 billion to \$1 trillion capital program/
 25 yrs. (American Society of Civil Engineers)
- Declining Use per customer
- Rate cases often 2 yr. cycle
- Riders
 - Decoupling Surcharge
 - Infrastructure Surcharge
 - Advanced Metering Surcharge

Rate Case Frequency

Wastewater

- EPA consent decree
 - Huge capital program
 - Separate wastewater / storm water
- Infrastructure replacement / modernization
- Wastewater declining customer use
- Storm water
 - Impervious Charge
 - Property Tax
- Riders
 - Decoupling
 - Infrastructure Surcharge
 - Advanced Metering

Rate Case Frequency

Wastewater

- Surcharges
 - Biological Oxygen Deficiency (BOD)
 - Total Suspended Solids (TSS)
 - BOD and TSS surcharges are charged for readings that measure how contaminated wastewater is with compounds that are not normally processed in domestic strength wastewater.
 - If readings indicate that wastewater has an unacceptable level of contamination, BOD and/or TSS surcharges will apply to a customer's bill.

Water / Wastewater Rate Case Structure / Process Revenue Requirement Class Cost of Service Rate Design

Revenue Requirement Water / Wastewater

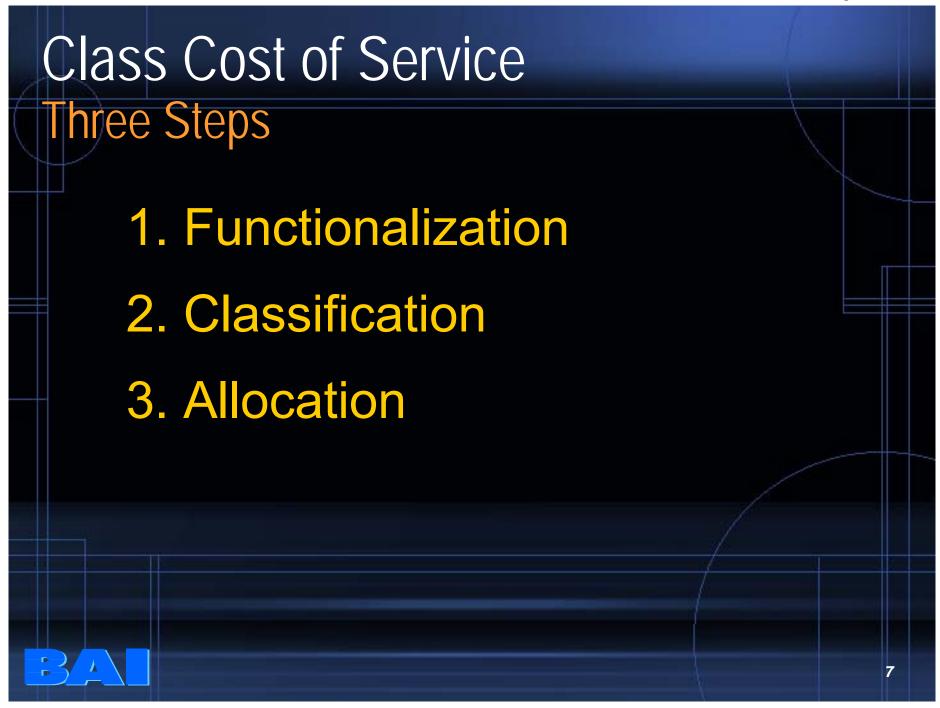
Investor Owned

- Operating Expenses
- Employee costs/benefits
- Other taxes
- Income taxes
- Depreciation expense
- Operating Income
 - Rate Base * ROR

Municipal

- Operating Expenses
- Employee costs/benefits
- Other taxes
- Debt service
- Capital: Rate Revenue Funding
- Issues:
 - DSC coverage
 - % Rate revenue funding



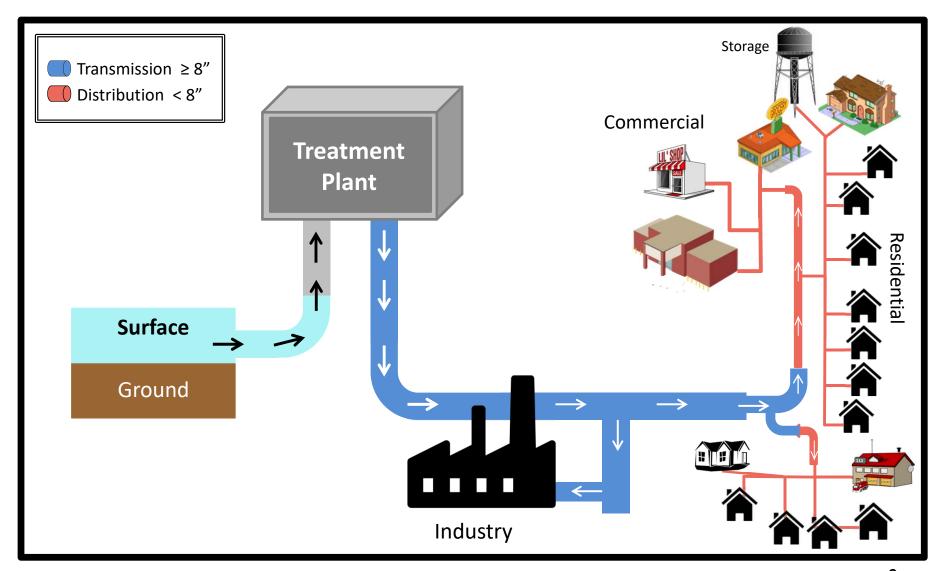


Cost of Service

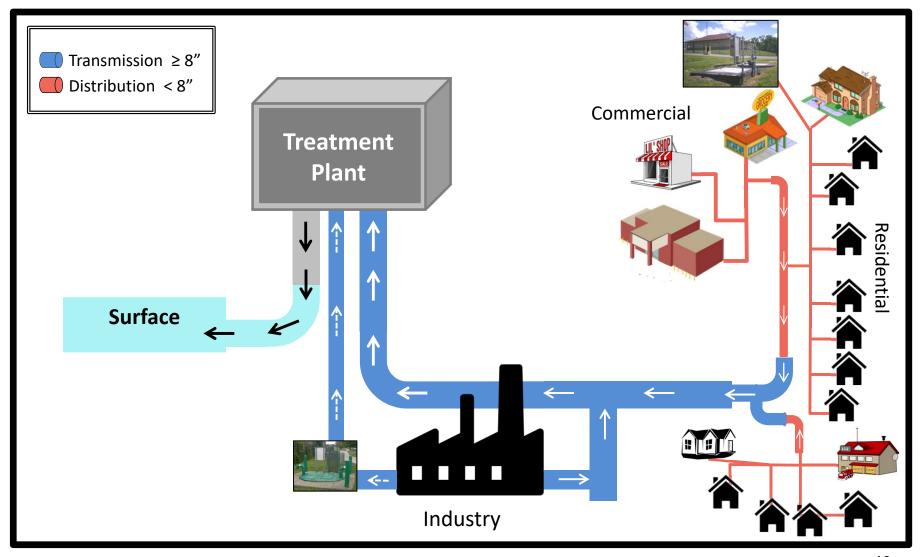
Cost Functionalization

- Supply water / wastewater treatment
- Transmission
- Distribution & storage
- Services & meters
- Fire protection
- General

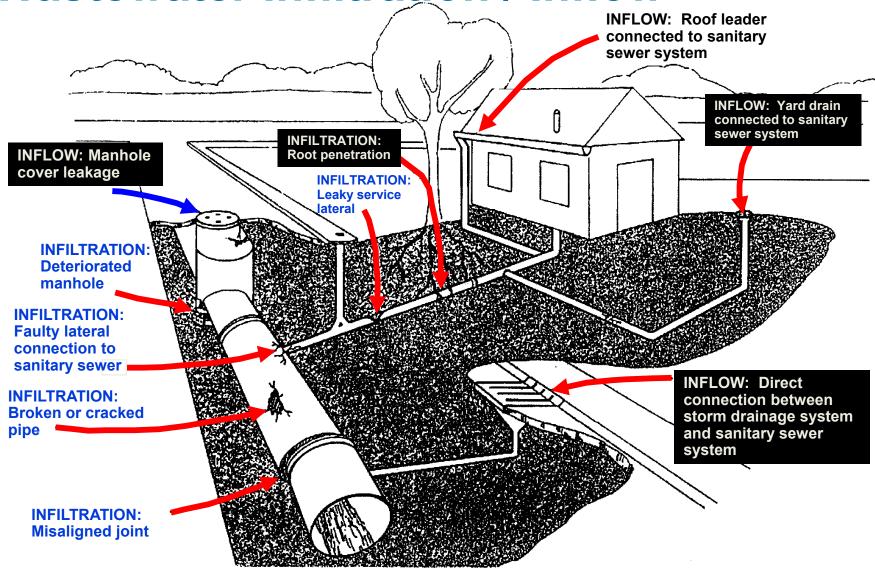
Water Transmission & Distribution Mains



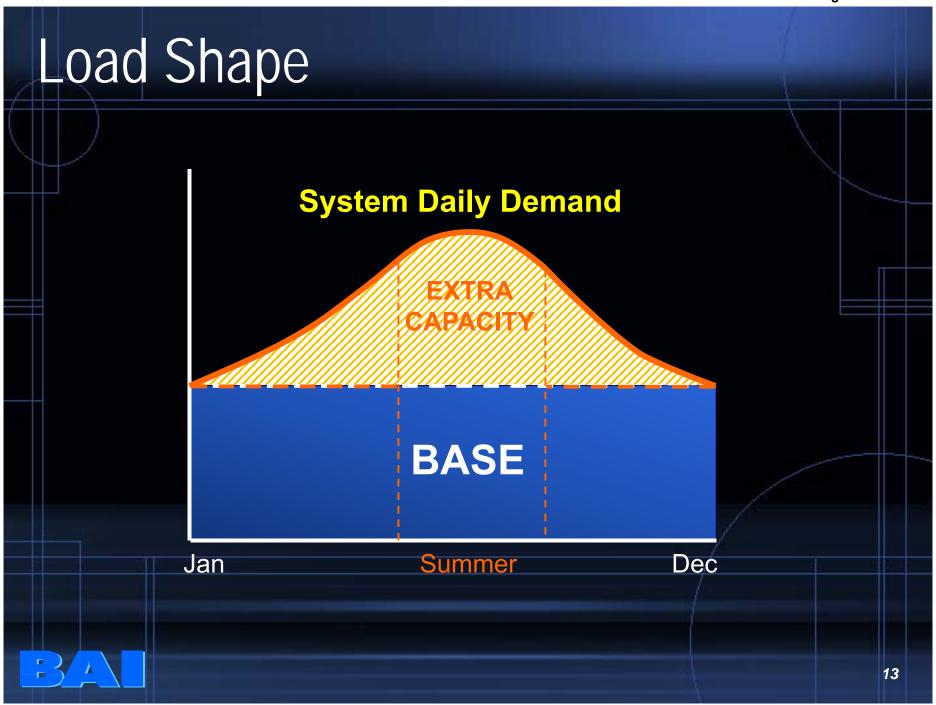
Wastewater Transmission and Distribution Collection



Wastewater Infiltration / Inflow



Cost of Service Cost Classification 1. Load Shape Average Day Maximum Peak Day Maximum Hourly Peak 2. Customer Large Mains - Small Mains Miscellaneous 3. Fire / Infiltration & Inflow 12



Functionalization / Classification

Classification

Function	Base	Max. Day	Max. Hour	Cust.	Fire	System
Production	50%	30%	10%		10%	100%
Transmission	50%	30%	10%		10%	100%
Distribution	30%	30%	10%	20%	10%	100%
Customer				100%		100%
Fire Protection					100%	100%

Customer Classes

Classification

Rate Class	Base	Max. Day	Max. Hour	Cust.	Fire
Residential	20%	25%	40%		20%
Multi-family	10%	15%	25%		10%
Commercial	35%	25%	20%		35%
Industrial	30%	25%	5%		5%
Public Authority	5%	10%	10%		30%
System	100%	100%	100%		100%

Fire Protection

- Public
 - –Hydrants along right-of-way
- Private
 - -Standpipes
 - -Sprinklers
 - -Hydrants

Water / Wastewater Rates

- Customer
- Volume charge
 - Declining Block
 - Increasing Block
 - -Flat Rate
- Fire Service
 - -Flat Rate
 - In Volume Charge



