



Beaver Water District

Management, Operation, and Challenges of a Regional Drinking Water Utility

Water Provider Legislative Task Force
August 8, 2018

Beaver Water District - Who We Are



- Regional Water District 1959
- Four Wholesale Customers
- Contracted Storage Space –
 120 MGD average
- Average Day Demand 2018 –
 54 MGD
- Awards

Water Utility Challenges - National*

- Asset Management \$
- Water Conservation Quantity
- Declining Budgets \$
- Sewer Overflows Regulatory
- Water Rates \$



^{*}B&V 2018 Strategic Directions: Water Report

Water Utility Challenges - Arkansas

*SDWA Violations in Arkansas:

- Public Notice Operator
- Disinfectant By-Product Rule –
 Treatment
- Operator License Operator
- Bacteriological Monitoring Operator



Water Utility Challenges - BWD

Regulatory

Personnel

Finances







Regulatory Challenges

- Source Water Quality
 - Algal toxins,
 pharmaceuticals, PCPs
- Disinfection By-Products
 - Chlorine + organics
- Risk Management Program
 - Gas chlorine vs. alternatives



Personnel Challenges

- Aging Workforce
 - 27% within 10 years of retirement
- Knowledge Transfer
 - Tacit knowledge
- Qualified Candidates
 - Limited response



Financial Challenges

- Asset Management
- Operating & Maintenance Costs
- Capital Improvement Projects
- Financial Reserves
- Water Rates

Asset Management

- Asset Database
 - Physical Description
 - Age
 - Condition
 - Original Cost
- Asset Maintenance
- Annual Depreciation Cost



Operating & Maintenance Costs

- FY19 \$13.7 M
 - Personnel 33.4%
 - Chemicals 19.2%
 - Power 19.7%
- 8.3%



Capital Improvements Projects

- Long Range Master Plan
- Financing
 - Revenue Bonds 60%
 - Cash Reserves 40%



Financial Reserves

- Capital Improvements (20%)
- Depreciation (10%)
- Emergency \$1M
- Source Water Protection
 - 4¢/1000 gallons



Water Rates

- Established in 15-Year Financial Plan
- Increases spread out over multiple years
- BWD Wholesale \$1.34/1000 gallons
- Avg. NWA residential water bill
 \$ 23.40/mo



Regulatory Challenges: Response

- Become/Stay Engaged
- Industry Trade Groups
- Community Partners

AWWA Phys

Personnel Challenges: Response

- Training
- PublicOutreach/Education
- Competitive Salaries
- O&M Contract Services



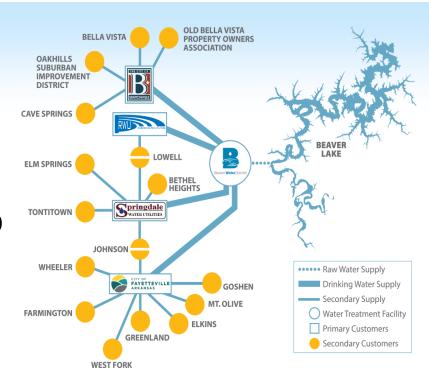
Financial Challenges: Response

- Adequate Rates
- Asset Management Program
- Funded Reserves
- Regionalization



Summary

- Many challenges are common, regardless of utility size
- Rates must be adequate to cover costs of services
- Regionalization



Questions

