STEWARDSHIP
RESOURCE
TO
COMMODITY
Getting By…

Operations
Resources
Finances

It’s the way it’s done.
We need to ask…

is it what we should be doing?
RESOURCES

Aquifer – Large & Resilient
A “Blessing” and “Curse”

Between Two Rivers
San Joaquin and Kings Rivers

Sierra Nevada Mountains
One of the largest natural reservoirs in the world
WE ARE “RICH” IN WATER RESOURCES

Excellent Planning by Our Forefathers

- Central Valley Project (CVP)
  San Joaquin River - 60,000 AF

- Conveyance Agreement (FID)
  Kings River – 120,000 AF
DECLINING WATERTABLE

• 100 Feet in 80 Years – 30 Feet in Last 10 Years!

• Impacts
  Rising Electricity Costs
  Contamination Plumes
  Well Rehab & Replacement Costs
STRENGTHS

INFRASTRUCTURE

$ 2.5 Billion Replacement Value

260 + Active Pump Stations

30 MGD Surface Water Treatment Facility

1,800 Miles (9.5-M Feet) of Pipelines

135,000 Meters

11,000 Hydrants

Over 112 Sq. Mile Service Area
INFRASTRUCTURE

• Some was over 100 Years Old
  
  35% Over 50 years Old
  
  4% Over 70 years Old

• Limited Resources for Replacement
  
  Previously $2.5-M/ year Re-active Replacement
  
  The pipe is aging faster than we replace it.
  
  $20-M/yr adjusted for inflation = 90 yr lifecycle plan
TIGHTENING REGULATIONS

- California Dept. of Public Health
  Nitrates, TCP, Arsenic
- Regional Water Quality Control Board
  Salts
- Proposed Limits on Groundwater Pumping
- Statewide Water Fees, “Public Goods Fee”
- Changes in Cropping Patterns
CONSERVATION

- Over 1,300 Acres Recharge Basins
  - 320 Acres – City
  - 970 Acres – FMFCD
  - 40 Acres – FID

- Average Recharge – 50+ KAF/year

- Over 22% Reduction in Water Use
  State Goal is 20% by 2020
METRO PLAN

50-Year Sustainable Water Resources Mgt. Plan

160 MGD Surface Water Treatment Capacity
25,000 AF Water Recycling – Purple Pipe Program
Regional Transmission Main Loop
Additional System Storage Capacity
Metro Plan System Improvements

Metro Plan has 40 miles of large, new conveyance and 90 miles of 16” diameter transmission grid mains.
METRO PLAN - BENEFITS

- Allow Aquifer to Rebound
- Recharge & Water Banking
  Eastside Stream Group
  Section 215 Water
MICRO-ECONOMIC STIMULUS

• Grants/No and Low Interest Loans
  $51-M in No-Interest Loans
  $6-M in Grants

• Bond Sales
  $153-M in 2010
  $3-400-M over the next 4 years