FOOTHILL MUNICIPAL WATER DISTRICT
WATER RECYCLING PROJECTS

USBR P.L. 102-575, Title XVI

Need For FOOTHILL Regional Water Recycling Project

- Statewide water shortages will continue in California as result of Delta issues, Colorado River cutbacks and increased population.
- The CALFED Bay-Delta program and the California Governor's Water Recycling Task Force are recommending that urban water agencies expand recycled water use to increase reliability of local water supplies and reduce reliance on imported water from the San Francisco Bay Delta.
- Wastewater reuse (recycling) is a critical element to solving California's statewide water problems (DWR State Water Plan and SWRCB Recycled Water Policy)
- Water recycling reduces California's dependence on imported water supplies from northern California and the Colorado River.

Proposed Foothill Regional Water Recycling Project

- Program would significantly increase recycled water deliveries within FMWD's service area from current 120 to 3,000 AFY by 2015, and will provide 15% of the region's future water needs.
- Recycled Water Program is being developed by FMWD and its partners (3,000 to 5,000 AFY).
- Program would increase use of recycled wastewater from the three "satellite" water regional recycling plants to replace demands on potable supplies for use in green belt irrigation and groundwater recharge.
- Proposed Raymond Basin with Verdugo Basin recharge would reduce overdraft and lower water tables plus benefit Glendale and Pasadena (and Arcadia and Sierra Madre).
- System improvements include: transmission and distribution pipelines, system storage, pump stations, system telemetry, service connections, and supplemental ground water recharge facilities.
- Construction of proposed project facilities is phased.

Expansion Phase	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Total
Proposed Implementation Period (F.Y.)	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	
Additional Customers	7	10	10	10	20	57
Anticipated Annual Recycled Water Sales (AF)	800	1200	2000	3000	5000-6000	95,000
Anticipated Capital Costs	10	15	10	15	50 million	

Funding Sources

- Federal U.S. Bureau of Reclamation funding assistance provided by P.L. 102-575 (25% of actual design and construction costs) about $12.5 million.
- State funding assistance provided through SWRCB grant programs ($12 million approved).
- MWD Local Resources Program provides up to $250 per AF of recycled water produced and delivered to a customer (5,000 AF x $250 = $1,250,000 annual payments)
- Avoided cost of LACSD and LA Hyperion sewage treatment costs ($200 per AF x 5,000 AF = $1,000,000 annual savings)
- Avoided cost of purchasing MWD imported water plus FMWD energy pumping costs ($1,200 per AF x 5,000 AF = $6,000,000 annual savings)
- Local cost share is 50% of total capital budget:

Local Contribution:	$25.0 million (50%)
State Contribution:	$12.5 million (25%)
Federal Contribution:	$ 12.5million (25%)
Total Cost:	$50.0 million

Foothill MWD

- FMWD provides wholesale imported water service to Altadena, La Canada and La Crescenta.
- Regional Water Recycling Project is being implemented in partnership with the Foothill Water Coalition and Pasadena, Glendale, Raymond Basin Management Board, LA County Public Works, MWD and the LA County Sanitation Districts.
- FMWD is a member agency of the Metropolitan Water District of Southern California.

- FMWD's service area covers 22 square miles with current population estimated at 88,000.
- Total regional annual water demand currently averages 20,000 acre-feet per year (AFY).
- Approximately 57% of regional water supply is purchased imported water, 39% from groundwater, 3% from local stream flow and the remaining 1% is from recycled water.
- Drought proof supply benefits:
    - 10 to 20% increase in local supplies will result in more reliable and lower cost supplies for all the customers.
    - AB 32 compliance with regard California climate change regs for water and wastewater utilities
    - Restoration and environmental enhancement of local watersheds
    - Long term "sustainable water supplies" and eliminate long term overdraft of Verdugo and Raymond Basins