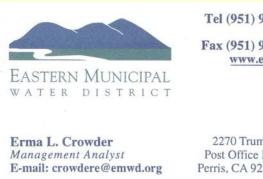


San Jacinto River Watershed Council Meeting February 3, 2005 2:00 p.m **EMWD Community Room** Perris, California

Presented by:



Tel (951) 928-3777 ext. 4224 Fax (951) 928-6120 www.emwd.org

2270 Trumble Road Post Office Box 8300 Perris, CA 92572-8300



- Modern Era Difference of the way for managing California's water resources in the Modern Era
- Local Vision Conceptual plan to address the challenges of managing the water supply to meet the local needs
- **Local Strategy D**Strategy to implement conceptual plans
 - **Funding Project** funding opportunities
 - **Projects** Highlights of two current funding efforts



California Water Plan (1957)

Burns-Porter Act (1959)

Modern Era

Guide for the orderly and coordinated control, protection, conservation, development, management, and efficient utilization of the water resources of the state. Since 1991, updated every five years. Basis for Burns-Porter Act.

Ratified by voters 1960. Programmed actions to meet water demands and solve problems as they arise.

- •Authorized the long-range plan implementation and funded construction of works needed immediately.
- State Water Project
- •Initial bond issue \$1.75 Billion. Of that, \$130 Million for loans and grants to local public agencies.
- •Additional works to be planned, funded, and constructed under continuous program envisioned.

Shifts in water management

□Since the '80s...greater emphasis on environmental matters, conservation in use, and water reclamation.



Local Vision

Water Supply
 Improve reliability of total supply for all users.
 Enhance and maximize use of local supplies
 Reduce dependence on imported water.

GroundwaterImage: Maintain and utilize the groundwater basins.ManagementImage: Preserve the groundwater quality.

SalinityProtect higher quality groundwater basinsManagementfrom salinity intrusion.Utilize brackish groundwater.Develop plans for extensive recycling.



Local Strategy

Comprehensive	West San Jacinto Groundwater Management
Groundwater	Plan (AB 3030). Adopted 1995.
Management	Hemet/San Jacinto Groundwater Management
	Plan

Conjunctive Use	Hemet/San Jacinto Conjunctive Use Program	
	•Stores water in the wet years for use during	
	long-term droughts.	
	Phased project to yield up to 25,000 AFY.	





Local Strategy

· · · · · · · · · · · · · · · · · · ·	 Perris Basin Desalination Program (centerpiece of WSJGWMP), when complete will remove more than 50,000 t/yr of salt from the basin: Three desalters 9-12 brackish groundwater wells Network of feed water and high salinity waste disposal pipelines Will generate up to 12,000 AFY of potable water, and control groundwater hydraulic gradients
Water Recycling	 EMWD's Recycling Program More than 100 miles of recycled water pipeline More than 6,000 AF storage pond capacity About 25,000 AFY is sold to customers. Conceptual plans for system upgrade and expansion to meet the needs of the changing customer base.



Recent Funding Opportunities

Hemet Water Filtration Plant

USBR PL984 Recycled Water Infrastructure (1990) •\$26 million low interest loan •\$7 million grant

Proposition 13 (March 2000) Perris Desalter
Conjunctive Use Phase 1
\$ 5 million

DHS/SRF (2004)

Other Federal Sources

■\$42 million, low interest loan

2000 Water Resources Development Act (WRDA)
 Perris II Design and Construction \$5 million
 Regional Brine Lines \$3 million

□2002 Farm Bill - SJ Ag In-Lieu Water Supply

Proposition 50 (November 2002)

Total Available Grants \$ 692	1,250,000
Total of Project Costs	\$ 144,328,579
Grants Requested	\$ 50,541,665

Projects



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Modern Era

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Local Strategy

1. Desalination Recovery Enhancement and
 Concentrate Management Study

<u>Funding Opportunity</u>: Prop 50 Desalination Program, Chapter 6 (a), application submitted January 18, 2005 Total Project Costs: \$790,000 Grant Request: \$395,000

In-Lieu Water Supply

More....

2. San Jacinto Agricultural In-Lieu Water
 Supply Project

Funding Opportunity:2002 Farm Bill,Conservation Innovation Grant Program,applications due March 28, 2005Total Project Costs:\$2.84 millionGrant Request:Limited to producerEQIP eligibility



Prop 50 Desalination Program

Chapter 6 (a) 1. Desalination Recovery Enhancement and Concentrate Management Study

<u>Purpose</u>: Conduct a pilot study to evaluate increased recovery and brine volume reduction from the three desalters.

Background:

- ✓ Brine disposal capacity in regional disposal system is limited and treatment and disposal costs rising dramatically.
- ✓ Brine reduction from the desalters will enable construction of the third plant identified in the PBDP.

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 \checkmark Need for increased water supply for the region.



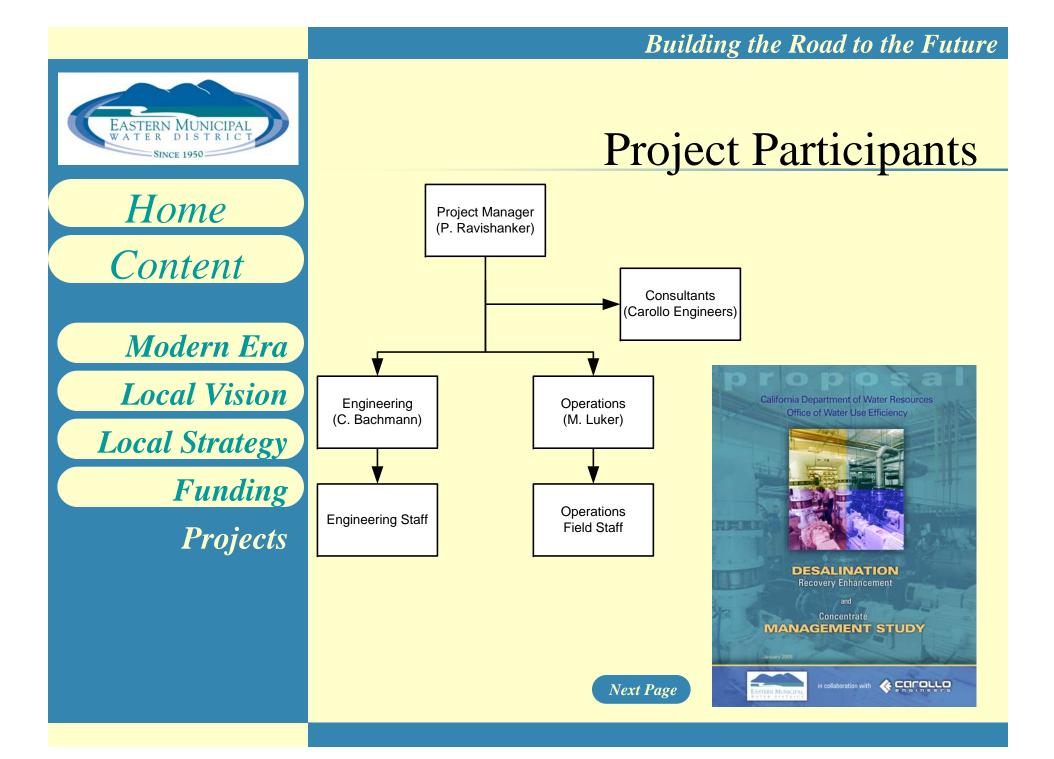
Prop 50 Desalination Program

Chapter 6 (a) 1. Desalination Recovery Enhancement and Concentrate Management Study

Objectives:

- ✓ Characterization of brine concentrate.
- ✓ Establish treatment methodology.
- ✓ Identify recovery levels and reduction volume.
- ✓ Develop estimates for capital and operating costs.
- Provide data for regional brine disposal planning efforts.





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Prop 50 Desalination Program

Chapter 6 (a) 1. Desalination Recovery Enhancement and Concentrate Management Study

Application
submitted toLetters of Suppo
Benoit, John J--DWR 1/18/05.Bono, Mary--M

\$25 million
available for
'04-05, 43
applications
received for
\$71 million.

of receiving funding.

÷.,	Letters of Support:
)	Benoit, John JAssemblyman, 65th District
-	Bono, MaryMember of Congress, 45th District
	Heil, Theodore RMember, Board of Directors, Moreno
า	Valley Chamber of Commerce
r	Feenstra, BobExecutive Director, Milk Producers Council
	Pastor, Steven AExecutive Director, Riverside County Farm
3	Bureau, Inc.
5	Piester, Edward MOperations Manager, Nuevo Water
r	Company
	Pulliam, Trent DPublic Works Director/City Engineer, City
	of Moreno Valley
Э	Norton, Mark RWater Resources and Planning Manager,
	Santa Ana Watershed Project Authority
J	Scott, BrucePartner, Scott Bros. Dairy Farms
•	Sybrandy, SidChairman, Western Riverside County Ag
	Coalition



Conservation Innovation Grant (Applications due March 28, 2005)

2. San Jacinto Agricultural In-Lieu Water Supply Project

<u>Purpose</u>: Implement innovative approach to maintaining and restoring the groundwater basins and enhancing available water supply by integrating an effective recycled water inlieu program with a comprehensive groundwater management plan.

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Conservation Innovation Grant (Applications due March 28, 2005)

2. San Jacinto Agricultural In-Lieu Water Supply Project

Objectives:

- ✓ Stabilize the San Jacinto groundwater subbasin and reduce the overdraft
- Minimize subsidence thus protecting integrity of groundwater aquifer
- Provide cost efficient, reliable alternative water supply enabling long-term viability o agricultural production
- Expand recycle water use to establish it as a conservation practice in-lieu of pumping groundwater while protecting ag water rights
- ✓ Increase groundwater supplies through effective regional reuse strategy
- Assist transformation of public's perception of recycled water (disposal vs building block for future water supply)



Conservation Innovation Grant (Applications due March 28, 2005)

Water Supply Project

Project description:

 Construct pipeline from existing recycled water pipeline to two adjacent farms (Rancho Casa Loma and Scott Brothers Dairy Farms)

2. San Jacinto Agricultural In-Lieu

- ✓ Preliminary Design study completed December 2004
- ✓ Estimated project costs \$2.8 million
- Schedule estimate 13 months from start of final design and environmental compliance and permitting.
- ✓ If selected, funding limited to producer eligibility under NRCS EQIP program.
- \checkmark Will need to seek additional funding sources.

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Conservation Innovation Grant (Applications due March 28, 2005) 2. San Jacinto Agricultural In-Lieu Water Supply Project

Community Support:

 Requesting support letters from basin stakeholders, legislators, and interested parties.