

Presentation to the  
Monterey Peninsula Water  
Management District  
Board of Directors

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by  
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**General Manager**



**Monterey Regional Water  
Pollution Control Agency**

**July 19, 2004**

**Overview of Presentation Topics**

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- General MRWPCA Background
- Current Recycled Water Operations
- Recycled Water Developmental Projects
- Other MRWPCA Regional Efforts
- Current Projects of Interest
- Recycled Water Availability
- Conclusions



## **General MRWPCA Background**

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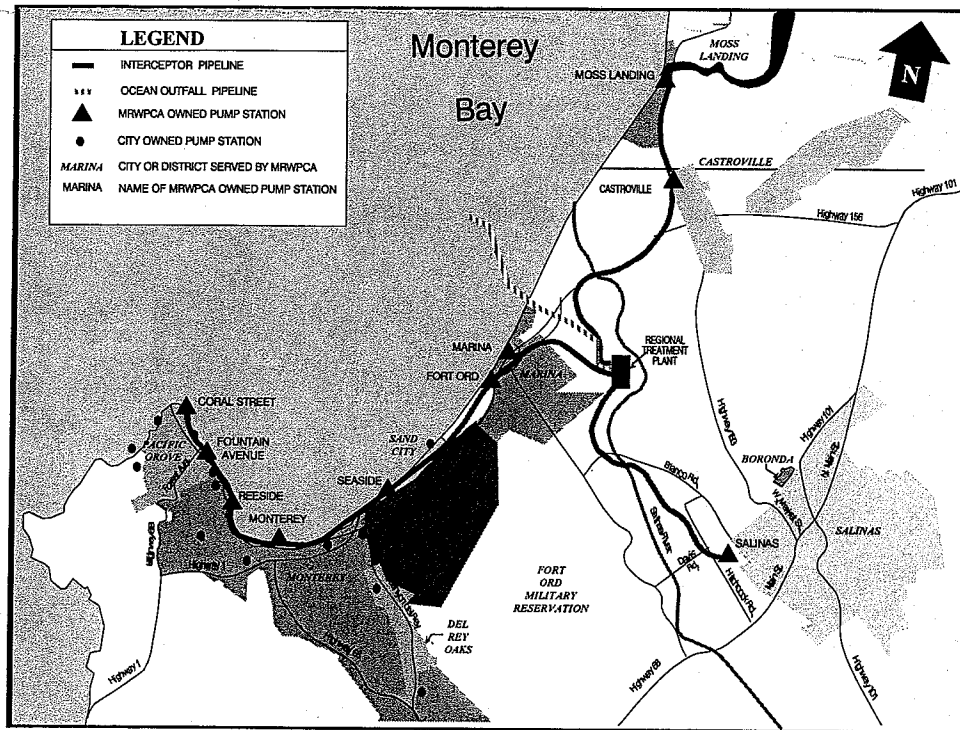
- 12-Member JPA Board of Directors
  
- History
  - Origins – 1972 as the “Peninsula” Water Pollution Control Agency
  
  - Goal – Provide Wastewater and Reclamation Services for Our Ratepayers



## **Facilities**

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- 29.6 MGD Secondary Treatment
  
- 3 Major Interceptors and 10 Pump Stations
  
- 2 ½ Mile Outfall to Monterey Bay
  
- Capital Cost - \$150+ Million



## MRWPCA Budget

- O&M - \$15 Million
- Capital Improvements - \$ 4.6 Million
- Residential User Rates - \$9.30/Month

**(12 Years at the Same Rate!)**



## Recycled Water History

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- Study of Regional Options for Regional System – Late 1970's
- Location North of Marina to be Recycled Water Ready
- Field Tests – 1980 through 1985
- Summary Report – 1988
  - Conclusion: ***Recycled Water is Safe for Raw Food Crops***



## Monterey County Water Recycling Projects (MCWRP)

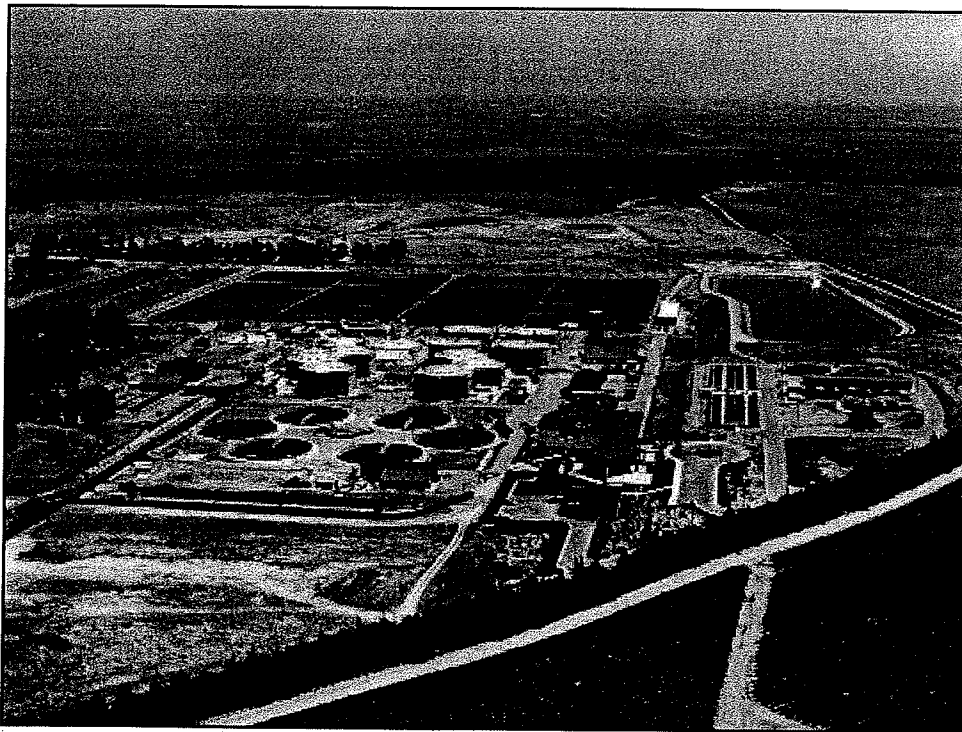
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- History
  - 1992 – Joint Agreement with County
  - 1995 – Project Funding
  - Capital Cost - \$75 Million
  - Reduces Seawater Intrusion by 40+%
  - World's Premier Agricultural Recycled Water Project

## Monterey County Water Recycling Projects (MCWRP) (cont.)

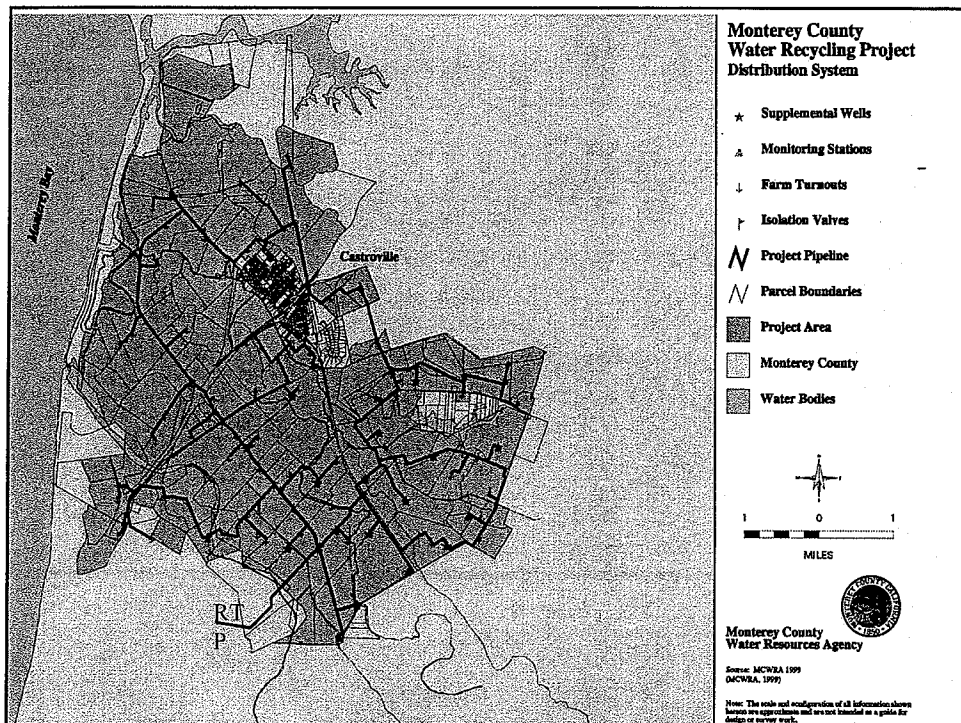
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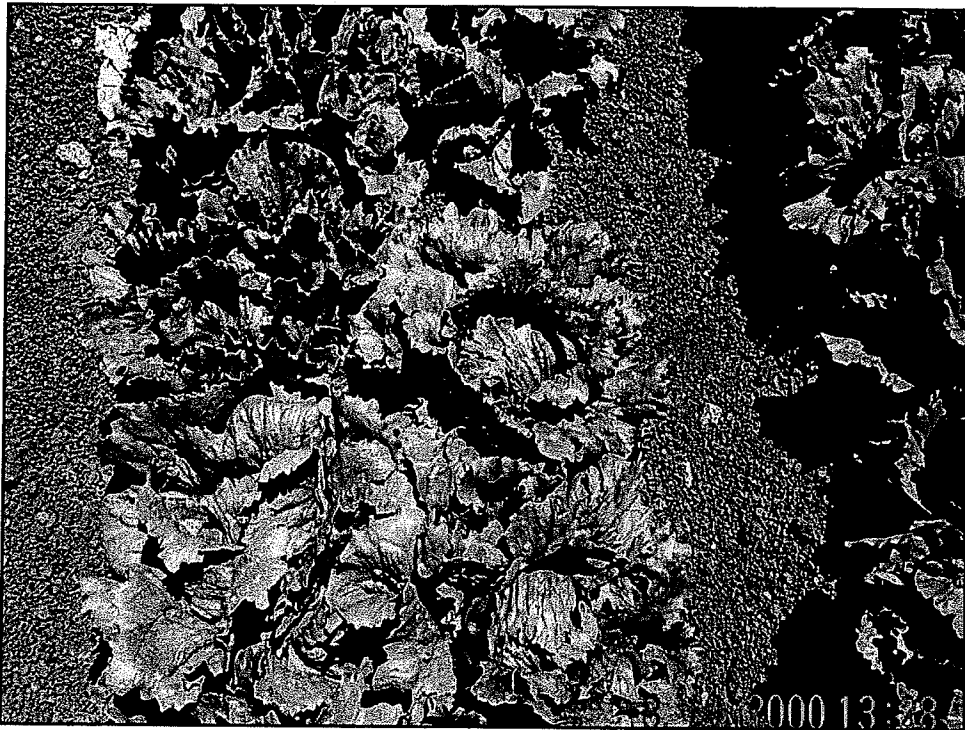
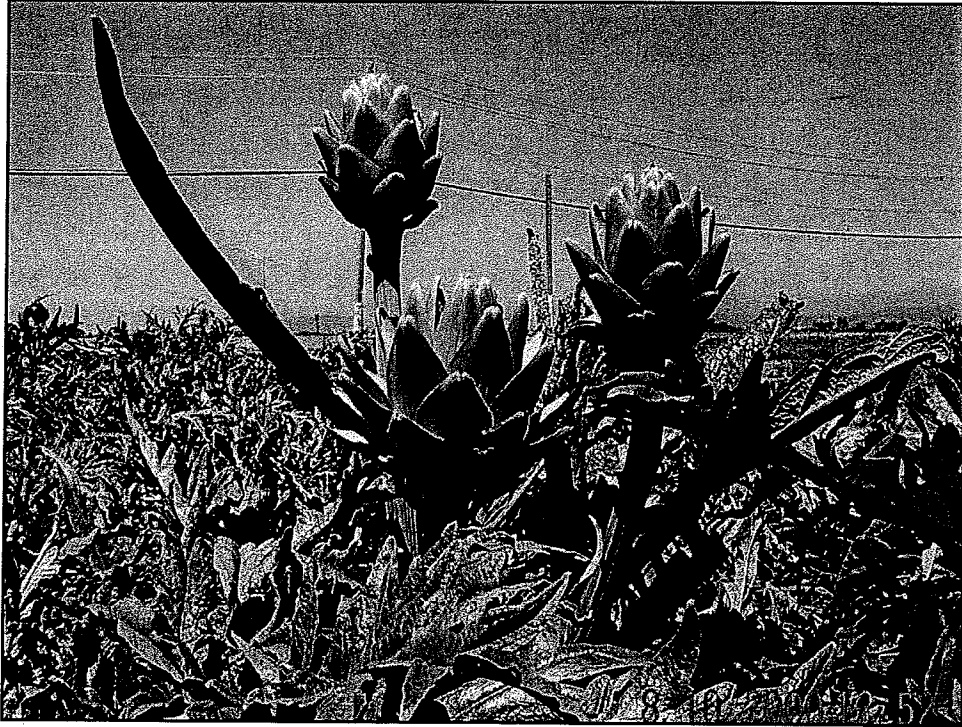
- Salinas Valley Reclamation  
Project (SVRP) - Treatment Plant
  - 1998 – Startup
  - 13,500 Acre-Feet/Year of  
Recycled Water
  - 23 ***Billions*** Gallons Produced  
to Date



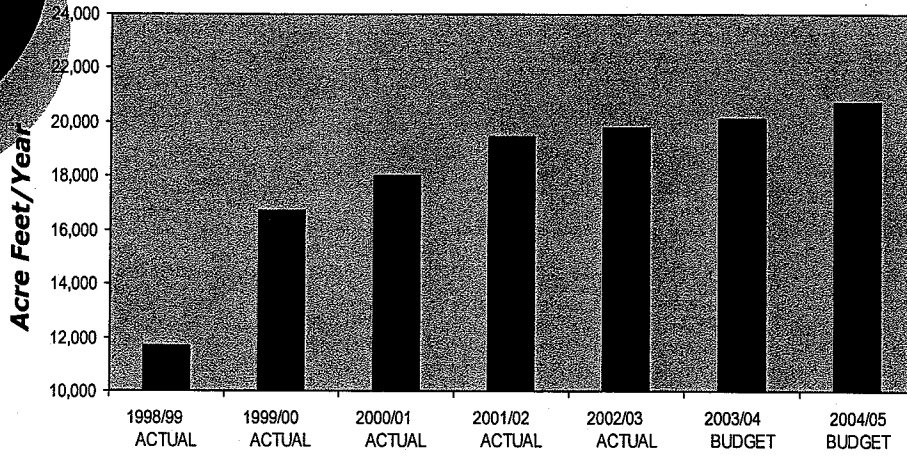
## Monterey County Water Recycling Projects (MCWRP) (cont.)

- Castroville Seawater Intrusion Project (CSIP) - Distribution System
  - MRWPCA is Pipeline System Operator
  - 44 Miles of Pipeline
  - 112 Turnouts
  - Supplemental Pumping
    - 6,500 Acre-Feet/Year

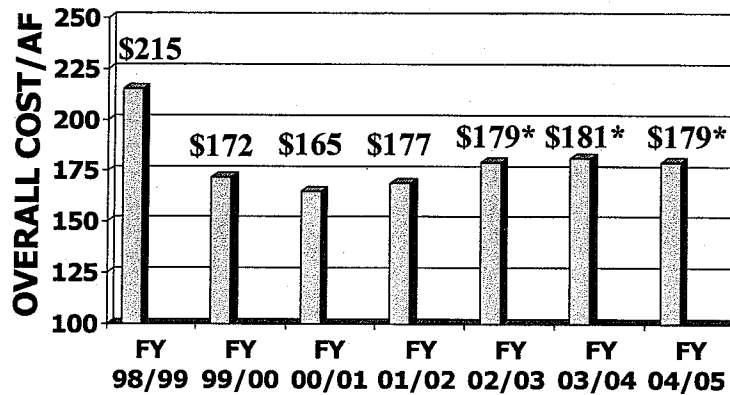




## OVERALL CSIP/SVRP PRODUCTION



## SVRP/CSIP OVERALL UNIT WATER COSTS



\* Excluding Bureau Loan.



## **Recycled Water Developmental Projects**

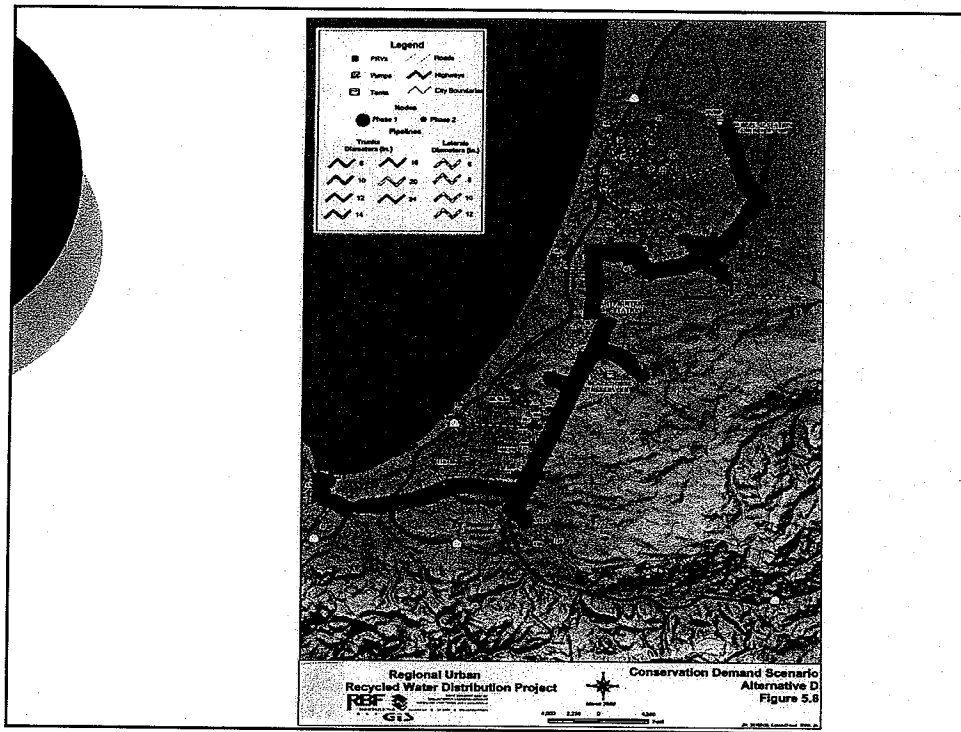
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- Joint Regional Urban Project with Marina Coast Water District (MCWD)
  - Phase I – 1,700 Acre-Feet/Year (300 AF for Peninsula)
  - Phase II – 3,000 AF/YR (Total)
  - Expected Cost: \$1,100 Acre-Foot
  - Start Up – 2007 or Later

## **Joint Regional Urban Project (cont.)**

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- Direction by Joint Leadership Group
- Current Status
  - FORA/MCWD Water Augmentation Study
  - Draft EIR – June 2004
  - FORA/MCWD Decision – Fall 2004



## Recycled Water Developmental Projects (cont.)

- Aquifer Storage and Recovery (ASR)
  - Initial Modeling Studies in Mid 1990's
  - Purpose: Store Excess Winter Recycled Water for Use in Summer
  - Updating Conclusions This Year
  - If Successful, Could Do a Test Well in 2006 or 2007



## **Other MRWPCA Regional Efforts**

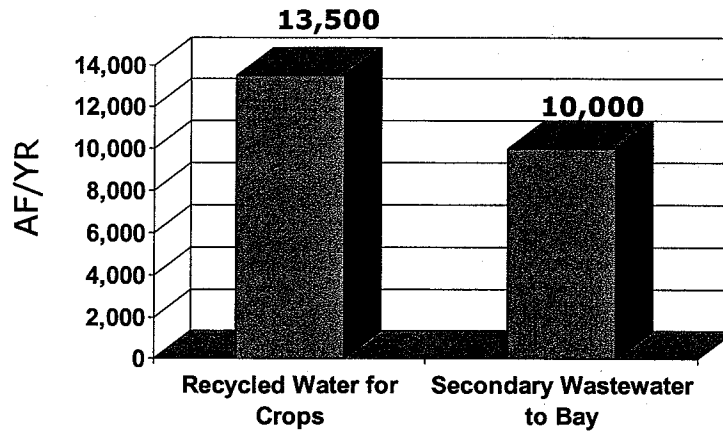
- Regional Storm Water Program
  - Administrator of Local Project
- Regional Grease/Spill Prevention Program
  - Joint Assistance to Members
  - Based on Model Program in Pacific Grove



## **Participation in Recycled Water Associations**

- WaterReuse Association
  - Nation-Wide Association
  - About 350 Members
  - Formed 1990
  - Founding Board Member
  - Goal – Promote the Use of Recycled Water
  - Recently Added Desalination

## Recycled Water Production



## Future Recycle Water Availability

YEAR	ENTITY	Quantity (AFY)
2007	MRWPCA & Members	2,000
2009	MRWPCA & Members	3,900
2013	MRWPCA & Members	3,900, Plus Potentially Other Unused Water



## **Conclusions**

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- Additional Recycled Water Could Be Available To The Peninsula For A Variety Of Uses
- Need Further Discussion/Exploration of These Opportunities



## **MRWPCA Expertise**

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- Low Cost, High Quality Operations
- Regional Solutions
- Implementation and Construction of Large Water Projects

**The Future**

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**MRWPCA is:**

***"Looking for  
opportunities for  
regional partnerships  
and projects,  
especially those involving  
water."***

Changing Wastewater Into  
Safe Water

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