



**CARMICHAEL
WATER DISTRICT**

Town Hall Meeting

Topic: Groundwater Contamination

Speaker:

Steve Nugent, General Manager

June 2, 2004

Background

- ◆ Monitoring Aerojet activity since 1980's for TCE and PCE
- ◆ Wells shutdown in Rancho Cordova area in 1997-1999
- ◆ Late 1999 CWD started quarterly testing of all its surface water and groundwater supplies
- ◆ **To date: No detection of NDMA or perchlorate in CWD's water supply**

CWD's Current Water Supply

Yearly Average:

Surface Water	75%
Groundwater	25%

Seasonal Use:

October – April

Surface Water	100%
---------------	------

May – September

Surface Water	66%
Groundwater	34%

CWD's Goals

1. Protect and ensure safe drinking water for its customers
2. Replace water supply lost to groundwater contamination
3. No rate impact to District customers

Protection – Replacement Supply

Goal:

- Minimize the use of groundwater

Strategy:

- Expansion of the water treatment plant from 17 MGD to 22 MGD (purchase and installation = 8 months)

Water Supply After Expansion

Yearly Average:

	<u>From</u>	<u>To</u>
Surface Water	75%	90%
Groundwater	25%	10%

Seasonal Use:

	<u>From</u>	<u>To</u>
	Oct. – April	Sept. - June
Surface Water	100%	100%
	May – Sept.	July/Aug
Surface Water	66%	80%
Groundwater	34%	20%

Protection – GW Treatment

- Ensure necessary groundwater treatment is in place prior to detection of contamination in CWD's supply
 - property acquisition
 - treatment
 - O & M costs

CWD's Public Outreach

Public notification and outreach:

- Town Hall Meeting
- Presentations to community groups
- CWD Board Meetings
- Newsletter – Water Ways
- Bill insert – flyer
- Web Site – www.carmichaelwd.org
- Newspaper articles

Keeping informed:

- Web Site – updates
- Newsletter
- Attend CWD Board Meetings

CWD's Actions Taken

- ◆ Split sampling of Aerojet's monitoring wells
- ◆ Property purchase for groundwater treatment adjacent to LaVista Reservoir (3 MG)
- ◆ Received bids for additional membrane filtration for expansion of the WTP (17 MGD to 22 MGD)

CWD's Strategy

Currently Developing A Strategic Plan:

- ◆ Replacement Water
- ◆ Cost Recovery
- ◆ Engineering Solutions
- ◆ Regional Planning
- ◆ Cooperative Efforts

Cooperation / Partnerships

Continue to work with Aerojet:

- ◆ Assist with location of monitoring wells
- ◆ Assist with removing roadblocks from required construction activities
 - GW Extraction Wells
 - GW Treatment Facilities
 - Pipelines

Impacts

Increased costs:

- ◆ Additional Water Quality Monitoring – sampling Aerojet’s monitoring wells (for NDMA & perchlorate)
- ◆ Increased Public Outreach
- ◆ Engineering & Legal Services
- ◆ Land Acquisition
- ◆ Treatment Plant Expansion
- ◆ O & M Expenses

CWD's Objective

Protect and ensure safe drinking water for its customers

Questions?