

# Clarifying Information on the Municipal & Industrial Objectives

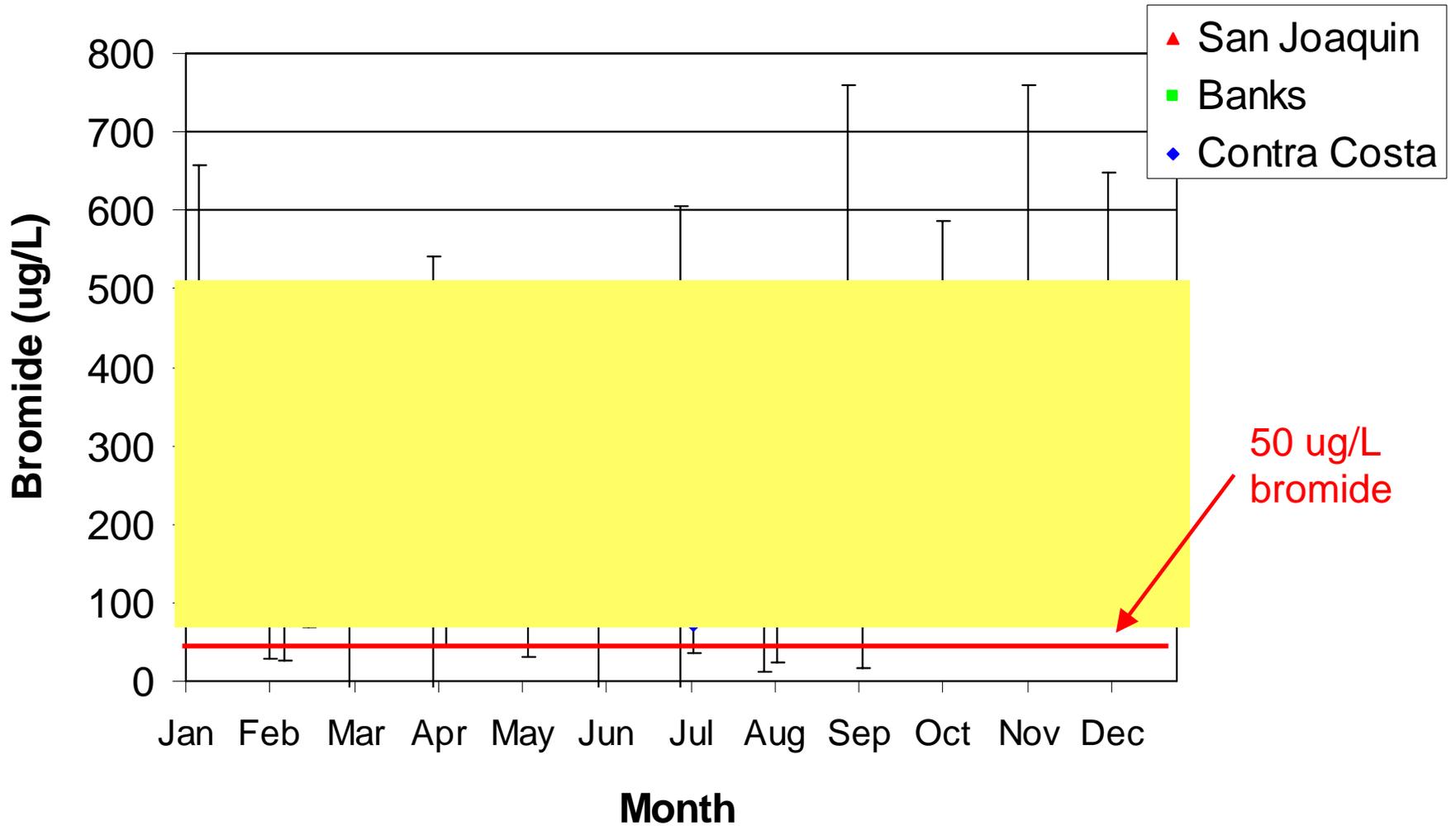
Lisa Holm, P.E.  
Drinking Water Quality Program Manager  
California Bay-Delta Authority

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# Current Delta Water Quality

Significantly Higher Bromide than  
CALFED Target

# Bromide Monthly Average and Standard Deviation (1996-2004)



# Current Treated Water Quality

Meets Existing Regulations, *or is capable of doing so with existing source water quality and improved treatment...*



# Upcoming SDWA Regulations

- Stage 2 Disinfectants/Disinfection Byproduct Rule:
  - Maintains 10 ug/L bromate standard
  - Changes from system averaging to locational averaging
- Promulgation this year (still under public review)
- 2 years to develop monitoring strategies
- Time to reach full compliance

# The CALFED Program

An Integrative Approach with a  
30-Year Planning Horizon

# Primary Objectives

*The mission of the CALFED Bay-Delta Program is to develop and implement a long-term comprehensive plan that will restore ecological health and improve water management for beneficial uses of the Bay-Delta System.*

- Water Quality
- Water Supply Reliability
- Delta Levees
- Ecosystem

# Water Quality Target Qualifiers

- Bromide and TOC numbers based on assuming a 5 ug/L bromate standard and backing out source water quality needs based on existing treatment technology
- CALFED recognizes that it is impossible to meet a 50 ug/L bromide target in the Delta without **significant redirected impacts** to water supply reliability and ecosystem impacts, thus proposes an “equivalent level of public health protection” alternative

# Equivalent Level of Public Health Protection (Hypothetical)

Delta  
Water

300 ug/L  
bromide

2.5 mg/L  
TOC



Treatment  
Plant

10 ug/L bromate

80 ug/L TTHMs

*“Either or” model*

# Equivalent Level of Public Health Protection (Hypothetical)

## Blending Reservoir

100 ug/L bromide  
3.0 mg/L TOC

## Delta Water

250 ug/L bromide  
2.5 mg/L TOC

## Treatment Plant

5 ug/L bromate  
40 ug/L TTHMs

## Exchange

Delta water for additional "other" water source

## Other Sources of Water

10 ug/L bromide  
4 mg/L TOC

*"ELPH" Model*

# Implementation

Over next two years:

- Funding regional planning efforts to assist in determining specific quality goals for Delta waters
- Developing conceptual models of high priority constituents (bromide, TOC) to determine optimum ways to improve water quality where really needed, without redirecting impacts