CVSC: Beneficial Use and Objective Study Phase 1 (2010-001)

Innovative Approaches | Policy-level Experience | Real World Expertise

21 April 2010
Today’s Presentation

- Team Introduction
- K/J’s Approach to the Beneficial Use and Objective Study
- AIMS: Availability and Accessibility
- Peer Review Process
- Discussion
Today’s Presenters

Colleen Haraden
Project Manager
19 Years’ Experience
Successful management of technically rich projects

Leila Khatib, PhD
Water Quality
9 Years’ Experience
Water Quality and Salt Management

Gary Carlton, PE
Senior Advisor
39 Years’ Experience
Policy and permitting issues in the Central Valley relative BUOs
Project Team

Central Valley Salinity Coalition

Senior Advisors
- Gary Carlton, PE
- Joe Drago, PhD, PE
- Stuart Childs, PhD, RG
- Les Chau

Project Manager
- Colleen Haraden

Water Quality
- Leila Khatib, PhD

GIS Analysis
- Colleen Haraden
- Mario Osorio

GIS Web Portal
- Jeroen Preiss
Our Approach: Task 1: Identification of Existing and Potential Beneficial Uses in the Central Valley

- Base Map Development
- Beneficial Use Mapping
- GeoDatabase Development
- GIS Web Viewer (AIMS)
AIMS: Our Proven In-house Asset Management Tool

1. ‘Open Source’, Non-Proprietary
2. Integrates Existing Systems and Databases (Hub and Spoke)
3. Web Based – Wide Range of Access Options
4. User Friendly – Minimal Training Required
5. Multimedia - Maps, Tables, Graphs, Images, Documents, Videos
6. Customized to Your Needs and Work Processes
7. Modular and Scalable – Implemented in Phases
8. Unlimited – Users, Functions, Formats
Our Approach: Task 2: Identification of Existing Water Quality Objectives

- Basin Plans
  - Tulare Lake
  - Sacramento River and San Joaquin River Basins

- Review with Board NPDES Permits and WDRs

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<tr>
<th>BUO\Const.</th>
<th>Total Dissolved Solids</th>
<th>Electrical Conductivity</th>
<th>Sodium</th>
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Our Approach: Task 3: Literature Search of Water Quality Criteria

- California
  - UC Davis
  - State Recycled Water Policy

- National
  - EPA
  - Colorado

- International
  - Australia
  - Middle East
  - United Nations Food and Agricultural Organization (FAO)
Peer Review Process

- Internal Senior Advisors
- Internal QA/QC
- Status Review Meetings
- Technical Advisory Committee
  - Present to TAC
  - Receive Comments
Discussion