

REVISED DRAFT (8/10/00)

Drinking Water Constituents Work Group
Goals, Project Areas and Implementing Agencies
For Stage 1 Implementation*

*All descriptions and costs estimates are for Stage 1 and are preliminary, subject to further evaluation.

Management

(Includes tracking of health effects studies, regulations, advancing monitoring, analytical and treatment technologies, other monitoring efforts (e.g. wastewater) and contract administration)

PYs:

1. Drinking Water Constituents 3 PYs
2. Blending and Exchanges 1 PY
3. Source Reduction/Control 2 PYs
4. Treatment 2 PYs
5. Runoff into Aqueduct (included in #3)
6. Salinity (included in #3 and #4)

Drinking Water Constituents

Goals:

- 1) Understand sources, loads and transport of drinking water constituents of concern.
- 2) Have mechanisms to evaluate drinking water quality changes from operations/storage/conveyance alternatives and other actions influencing the quality of drinking water sources.

Project Areas:

- Baseline data analysis
- Gathering future data to fill in data gaps (\$7 million)
- Manipulation approaches
- Transport studies (\$1-2 million)
- Continuous Real-time monitoring of TOC/Salinity; adequate instrumentation (\$9 million front loaded to cover installation costs and maintenance of real time equipment)
- Load response modeling (control being the ultimate end goal) (\$5-10 million)

- Consistency with regulatory uses – done in a manner useful for regulators
- Data management/modeling – support ongoing efforts including database management (\$7 million)
- Synthesis and analysis (interpretation) – covers technical Work Groups, expert panels, and in-house coordination efforts (\$1 million)
- Representation on operations and other groups
- Track methods development (\$1 million)
- Overall program management (adaptive management)
- Data Coordination
- Support local monitoring programs (\$1 million)

(Includes support for ongoing CALFED Drinking Water Quality Improvement Projects funded in FY 2000 – “Assessment of Sources and Loads of Drinking Water Constituents of Concern”)

Implementing Agencies:

DWR modeling group and DWR (ESO) database management group will lead modeling/operations and data storage and distribution efforts, respectively. Lead implementing agencies for other drinking water constituents projects will be identified during the solicitation process. Administration and governance will occur through the CALFED Program.

Water Quality Blending/Exchanges

Goals:

- 1) Determine the role of water quality blending/exchanges projects in achieving the drinking water quality improvement objectives.
- 2) Improve reliability

Project Areas:

- North Bay Aqueduct (\$0 million)
- Bay Area (\$6 million)
- Southern California (\$20 million non-CALFED funds)

(The above projects include: 1) discussions with stakeholders; 2) technical feasibility studies, including legal and engineering; 3) pilot and demonstration scale projects; and 4) implementation (construction) of promising projects – construction costs are not determined at this time.)

Lead Implementing Agencies:

Bay Area Blending/Exchange Project – unknown for FY 2001 and beyond. Expected to be directed action. Southern California Blending/Exchange Project – Metropolitan Water District of Southern

California will be lead agency. Administration and governance of projects funded by CALFED will occur through the CALFED Program.

Sources and Loads Reduction/Control

Goal:

- 1) Implement cost effective source control projects to improve drinking water quality

Project Areas:

- Identify and inventory pollutant sources
- Prioritize sources (assessment of loads ties into prioritization)
- Evaluate methods to control significant pollutant sources (BMPs, local treatment, watershed management)
- Implement pilot projects to assess feasibility of BMPs and other source control methods
- Implement BMPs and other source control methods to reduce pollutant loads
- Support development of CVRWQCB Drinking Water Policy

(Includes support for ongoing CALFED source control projects initiated in FY 2000--"Salinity and Selenium Drainage Management"; "Veale/Byron Tract Drainage Discharge Management".)

Costs were not individually estimated for these project areas. Total estimated costs in Framework for Sources and Loads Reduction/Control Projects are \$302 for Stage 1.

Lead Implementing Agencies:

Contra Costa Water District will continue to lead the Veale/Byron Tract Discharge Management project. Other lead agencies will be identified through the solicitation process. Administration and governance will occur through CALFED.

Treatment (high priority projects slated for immediate focused RFQs when funding becomes available)

Goal:

- 1) Determine the advanced drinking water treatment technologies that can be used to treat Delta water supplies in a cost effective manner to meet pending and future drinking water regulations

Project Areas:

- Baseline analysis of meeting pending regulations (\$1 million)
- Pilot and full scale demonstration of advanced treatment technologies, including ozone, peroxone, UV, membranes, and

combination of these technologies (and perhaps in combination with chlorine dioxide) (\$50 million)

- Synergistic effects of advanced treatment processes (\$5 million)
- Desalination with particular emphasis on disposal of brine (\$20 million)

Lead Implementing Agencies:

Lead agencies are unknown. Lead agencies will be identified through the solicitation process. DHS is likely to be the primary agency to oversee the CALFED treatment projects. Administration and governance will occur through CALFED.

Control Runoff into the California Aqueduct and Other Drinking Water Conveyances (runoff could be a source control action)

Goal:

- 1) Minimize stormwater contributions of contaminants into the California aqueduct and other similar drinking water conveyances.

Project Areas:

- Control drainage of stormwater into the aqueduct by physical modification of facilities
- Develop and implement a watershed management program to minimize drainage impacts on the aqueduct

(Track and integrate with ongoing efforts of the Sanitary Survey Action Committee and the DWR Division of Operations and Maintenance)

Lead Implementing Agency:

Lead implementing agency is DWR. Administration and governance will occur through CALFED.

Salinity

(Covered under Sources and Loads, Treatment)

Notes from Kim Taylor

Implementation entails:

1. Prioritization
2. Sequencing/critical review
3. Flushing out scope
4. Funding
5. Projecting 7 year budget
6. Proposal selection process
7. Technical review
8. Facilitating work
9. Review of effectiveness