

PUBLIC WORKSHOP

2004 Water Use Efficiency Proposal Solicitation Package (PSP)

August 31, September 1 – 2, 2004

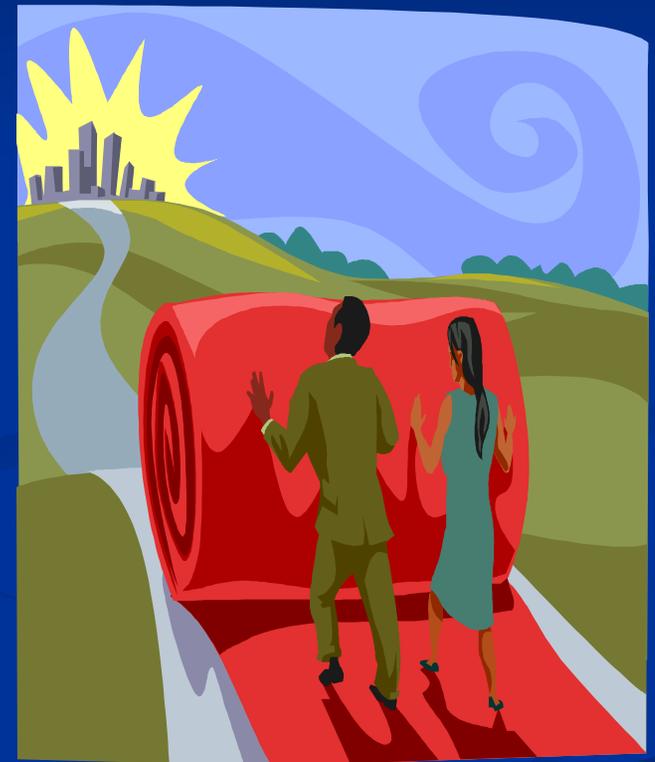


AGENDA

■ Welcome and Introductions Dave Todd, Manucher Alemi, Debra Gonzalez	10:00
■ Water Use Efficiency: An Update Debra Gonzalez	10:20
■ WUE Proposal Solicitation Package Debra Gonzalez, Steve Cowdin, Farhad Farnam	10:30
■ Questions	11:00
■ Adjourn	12:00

Welcome and Introductions

- An Update on the WUE Financial Assist. Program
 - Past Years
 - Update
 - Project Highlights
 - Introduction to the 2004 Proposal Solicitation Package



WUE: An Update

Three-Year Summary

WUE State Grant Funding	2001 (SB 23)	2001 (Prop 13) Feasibility Studies	2002 (Prop 13)	2003 (Prop.13)
Proposals Received	116	40	210	60
Total \$ Requested	\$ 85 million	\$ 8.9 million	\$ 117 million	\$39 million
Projects Selected	53	12	29	25
Total \$ Dispersed	\$ 11.8 million	\$ 1.1 million	\$ 9.8 million	\$18 million

Project Highlights 2001: SB 23

Santa Barbara County Water Agency Installation of Residential ET Controllers

- SUMMARY
 - 300 ET controllers distributed to residential high water users
 - Cost to residents = \$4 / mo data link charge that provides weather data

- ANTICIPATED WATER SAVINGS
25% reduction in outdoor irrigation use
(Actual savings = 8 to 59 %)

- FUNDING Senate Bill 23: \$205,975
 Local Agency: \$145,350



Project Highlights 2001: SB 23

Lost Hills Water District
Agricultural ~ Distribution Improvement System



■ SUMMARY

- Concrete lining of irrigation canals.
- Prevent seepage losses to a saline shallow ground water table.
- Benefits of reduction in drainage and maintenance costs.

■ ANTICIPATED WATER SAVINGS

170 and 110 Acre Feet per year of water can be saved from the two canal lining projects.

Approximately 3,230 Acre Feet and 2,090 Acre Feet over 20 years.

■ FUNDING

Senate Bill 23: \$754,500 and \$572,100.

Local Agency: \$140,400 and \$78,000

Project Highlights 2001: SB 23

California Water Awareness Campaign Public Information Program

■ SUMMARY

- Objective: To create a better understanding of water's critical importance
- Theme = "Right at home"
- Ads to emphasize individual behavior and responsibility
- Conveyed on television, radio, bus signs, billboards, movie theatre ads, print ads, utility bill inserts, and booklets
- www.wateraware.org

■ FUNDING Senate Bill 23: \$250,000

Local Agency: \$118,575



A billboard starring "Guy Waterman".

Project Highlights 2001: SB 23

Regents of the University of California Water Wise Demonstration Garden

■ SUMMARY

- The Horticultural Center in Fair Oaks Park, Sacramento
- Backyard landscapes / demonstration areas represent different designs and themes
- Tours, lectures, and workshops are used to increase community education

■ FUNDING	Senate Bill 23:	\$238,513
	Local Agency :	\$39,150



Project Highlights 2002: Prop 13

Bear Valley Community Services District Residential ULFT Give Away



- **SUMMARY:** BVCSD purchased and distributed 400 ULFT to residential customers in Bear Valley Springs, a remote town in the Tehachapi Mountains. The program allows for a customer rebate of \$100 per ULFT.
- **ANTICIPATED WATER SAVINGS:** 18.6 gpd of water per toilet over the 15 year life of the toilet. 400 ULFT will save 125 acre feet of water over 15 years.
- **FUNDING**

Proposition 13:	\$ 44,000
Local Agency:	\$ 12,800

Project Highlights 2002: Prop 13



City of Rio Dell Water Meter Replacement

- **SUMMARY:** In order to conserve water, the City of Rio Dell is replacing most existing water meters. Generally, these are either ≥ 20 years old, under report water use, or are completely nonfunctional.
- **ANTICIPATED WATER SAVINGS:** 1000 of the 1180 water meters within the City will be replaced for an estimated water savings of 56 acre feet per year. Over the 20 year life of the project, water savings will amount to 1120 acre feet per year.
- **FUNDING**

Proposition 13:	\$714,910
Local Agency:	\$0

**2004 WATER USE EFFICIENCY
PROPOSAL SOLICITATION
PACKAGE (PSP)**

Contents of the PSP

- Section A: Local and Regional Agricultural and Urban Water Use Efficiency Implementation Projects
 - Background and General Requirements
 - Selection Criteria Components
 - Proposal Contents
- Section B: Research and Development, Feasibility Studies, Pilot or Demonstration Projects Training, Education or Public Information, Technical Assistance
 - Background and General Requirements
 - Selection Criteria Components
 - Proposal Contents (See A-15 except for Outreach, Community Involvement and Acceptance, A-15g, and Benefits / Costs, A15i and additional requirements for Statement of Work, A15c,d,e)

Who May Apply

- Entities involved with water management
- cities, counties, cities and counties, joint power authorities, public water districts
- Non Profit Organizations
- Tribes
- Universities, Colleges, State and Federal Agencies (Section B Projects Only)
- Investor owned utilities and incorporated mutual water companies eligibility is subject to further determination by DWR.
Urban water suppliers must have submitted a completed plan to DWR that meets the requirements of the Urban Water Management Planning Act.

Eligible Projects

- Agricultural and Urban Water Use Efficiency Projects from throughout the State that provide direct or indirect benefits to CALFED Bay-Delta System are considered. Proposition 50 sets priority for projects that achieve multiple benefits across CALFED program elements.
 - Projects in the CALFED Bay-Delta Watershed
 - Projects in the State Water Project Area Watershed
 - Projects that can exchange water with the above watersheds
- Urban Best Management Practices
- Agricultural Efficient Water Management Practices
- Other Implementation Practices (i.e. Targeted Benefits)

Local vs. Bay-Delta Benefits

- WUE Project Benefits: Net water savings, water supply savings, recoverable water loss savings, water quality, and environmental improvements (flow/timing and temperature), expressed quantitatively or qualitatively.
- Local Benefits: The portion of the project's Benefits that benefit the entity's service area
- Bay-Delta Benefits: The portion of the project's Benefits that benefit the CALFED Bay-Delta System
- For Section B projects only qualitative description of expected benefits are needed

Ineligible Projects

SECTION A:

- Locally cost effective projects not eligible
- Not eligible under Section A:
 - Research and development
 - feasibility studies
 - pilot or demonstration projects
 - training, education, or public information, or technical assistance

SECTION A & B

- Other ineligible projects:
 - In A-4 of the PSP, wellhead rehabilitation, new storage supply, water treatment, wastewater treatment and recycled water projects

Geographic Scope & Duration of Projects

- Geographic Scope
 - Statewide contributing to California Bay-Delta Program goals
- Duration
 - Expended within 3 years of contract execution
 - Discrete 12-month periods

Funds

- \$34 million this cycle
 - 50% urban
 - 50% agricultural
- 75% Section A Projects
- 25% Section B Projects

- Section A applicants must provide a cost share.
 - Proportionate to the split between local benefits and California Bay Delta benefits

Labor Code Compliance

- Entities awarded grants must ensure compliance with Labor Code Compliance programs for public works projects and limitations on use of volunteer labor

Conflict of Interest & Confidentiality

- Conflict of Interest

All applicants and reviewers are subject to State and Federal conflict of interest laws

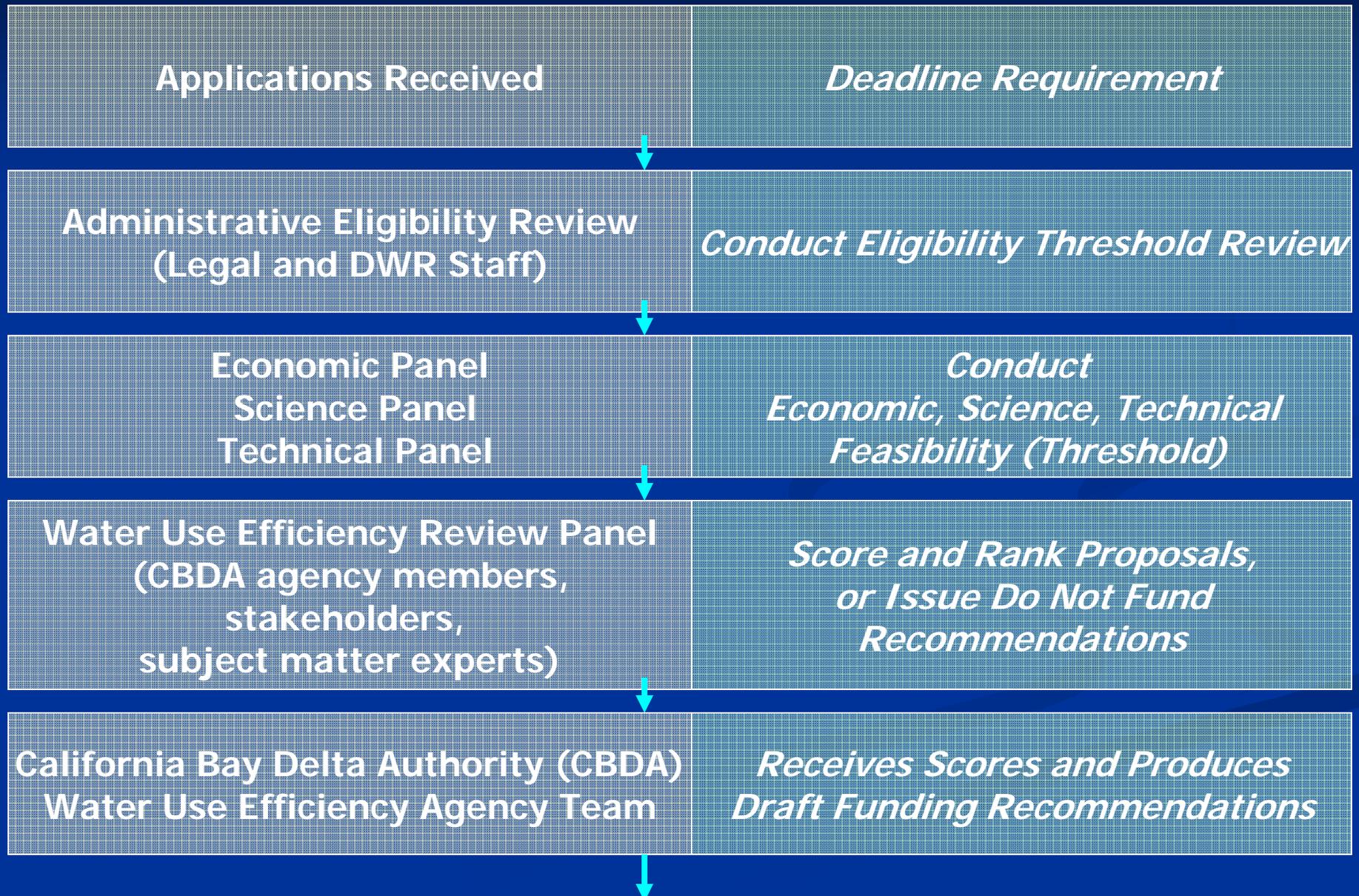
- Confidentiality

- Applicant waives any right to privacy and confidentiality with respect to application information once the application is signed and submitted to DWR
- All proposals will become public information

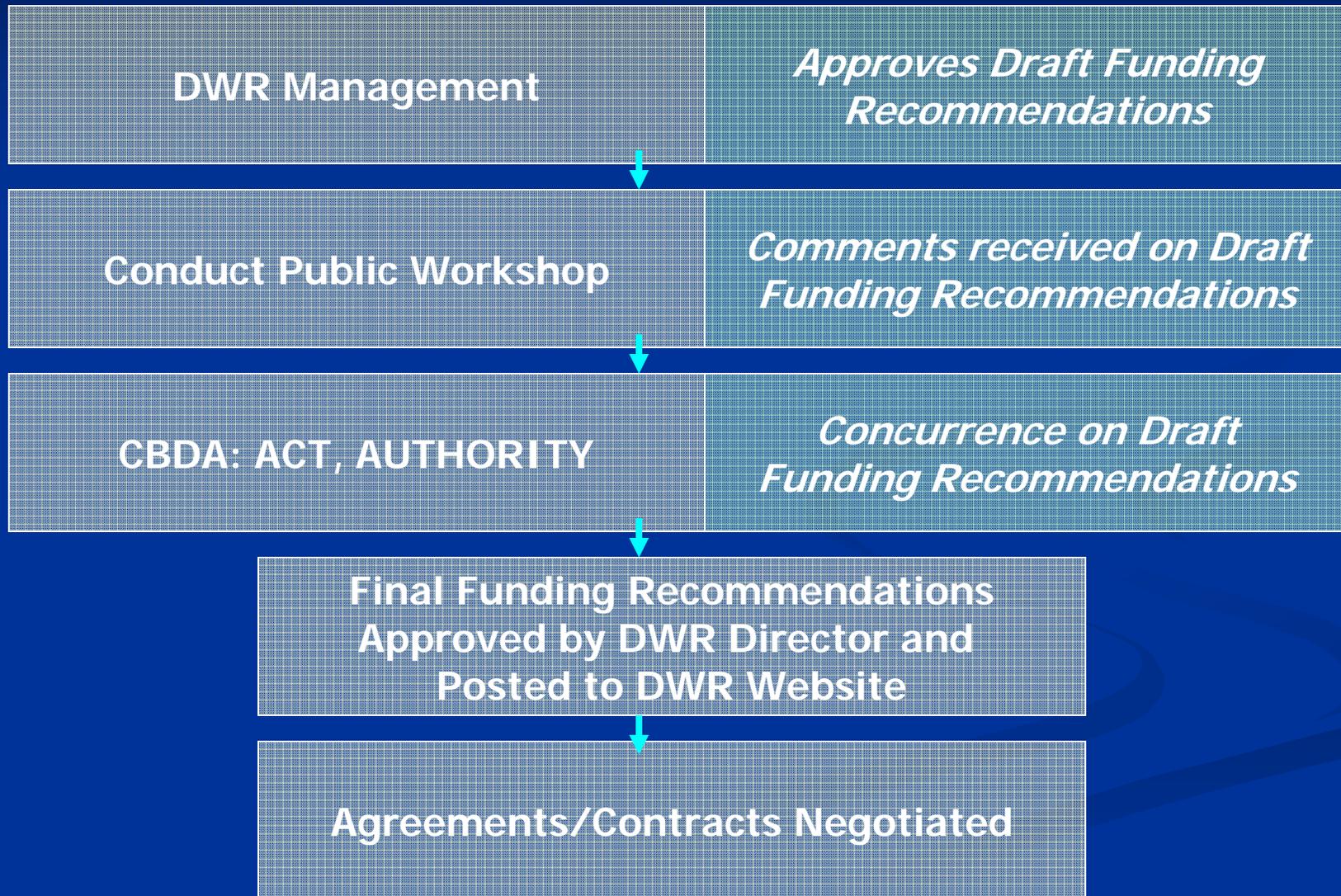
Section A: Selection Criteria

Criteria	Points
Relevance and importance	10
Technical/scientific merit, feasibility,	20
Monitoring and assessment	15
Qualifications of the applicants	5
Outreach, community involvement and acceptance	5
Innovation	10
Benefits and costs	35

Review and Selection Process



Review and Selection Process (continued)



Anticipated Schedule

- August 12, 2004 Final PSP released
- August 31, 2004 Public Workshop
- September 1, 2004 Public Workshop
- September 2, 2004 Public Workshop
- October 12, 2004 Proposals due by 3:00 PM
- February 11, 2005 Review process complete
Workshops conducted
Draft recommendations
- February 17, 2005 Final recommendations
- February 28, 2005 Contract negotiations begin

Contents of Complete Proposals

- Refer to:
 - A-15 (p 10) for Section A Projects
 - B-15 (p 19) for Section B Projects

- Project Information Form (All projects)
Complete Appendix A

- Signature Page (All projects)
Complete Appendix B

C. Statement of Work: Relevance & Importance

- Purpose, goals and objectives
- Project description
- Location
- Need for and priority of projects to achieve multiple benefits to the Bay Delta:
 - Activities identified in urban/ag. water management plans
 - Consistent with local / regional water management plans or other resource management plans
 - How project will implement existing or planned water management activities

D. Statement of Work: Technical / Scientific Merit

- Description of methods, procedures, expected outcomes, benefits and costs
- Tasks, deliverables, complete project plan schedule
- Compliance with local, county, State, and federal permitting requirements
- Environmental
 - Address environmental, social, economic impacts
 - Plan for required CEQA/NEPA compliance

E. Statement of Work: **Monitoring and Assessment**

- Describe monitoring and assessment plan
- Explain monitoring methodologies and data to be collected
- Describe reporting methods to DWR and others
- Estimated costs associated with the implementation of monitoring

Grantees are required to re-evaluate project cost/benefits and submit annual reports of benefits and costs for five years after the completion of the project.

F. Qualifications of Applicant & Cooperators

■ Applicant

- Resume(s) of project manager(s)
- Describe previous water use efficiency grant projects.
- Confirm
 - prevailing wage requirements (Labor Compliance Program)
 - no volunteers on project

(Consult with your legal staff on these Labor Code responsibilities)

■ External cooperators

- Identify and describe roles

Performance in prior programs will be a consideration

G. Outreach, Community Involvement and Acceptance

- Coordinate with local government & other agencies
 - Describe
 - plan for public outreach
 - support and opposition
- How does the project fit into local and regional plans?

H. Innovation

- Describe innovative technologies and methodologies that will be employed.
- How do these contribute to improved efficiencies in projects throughout the State?

I. Costs and Benefits

- Appendix C: Costs and Benefits Tables:
- Document:
 - Costs (document complete budget for your project)
 - Benefits of water quantity, water quality, in-stream flow and timing and other environmental benefits
 - Provide documentation of direct impact to the Bay Delta System
 - Describe how proposed water conservation project results in other non quantifiable benefits within the California Bay Delta Program area
- Complete the tables applicable to your project
- Provide documentation to explain and justify all major analysis assumptions
- An Excel version of the Tables is available on the web:
<http://www.owue.water.ca.gov/finance/index.cfm>

Appendix C: Tables

- C-1: Project Implementation Costs (Budget)
- C-2: Annual O & M Costs
- C-3: Total Annual Project Costs
- C-4: Local Benefit
- C-5a: Bay-Delta Net Water Savings
- C-5b: Other Bay-Delta Water Supply Benefits
- C-6a: Bay-Delta In-stream Flow and Timing Benefits
- C-6b: Other Bay-Delta Water Quality and Environmental Benefits
- C-7: Total Amount of Water Saved
- C-8: Capital Recovery Factor Table

Table C-1

Project Costs

- **Prepare a detailed project budget and the proportion of cost sharing including applicable items such as:**
 - Administration
 - Planning / Design / Engineering
 - Equipment / Rebates / Vouchers
 - Materials / Installation / Implementation
 - Implementation Verification
 - Project Legal / License Fees
 - Environmental Compliance
 - Construction
 - Monitoring and Assessment
 - Contingency, enter as percent (i.e. 5, 10)

Table C-1: Project Implementation Costs (Budget)

	Category <i>(I)</i>	Applicant Share	California Bay-Delta Program Share	Total Project Costs
		<i>(II)</i>	<i>(III)</i>	<i>(IV)</i>
				<i>(II + III)</i>
a)	Administration			
	Salaries, wages			0
	Fringe benefits			0
	Supplies			0
	Equipment			0
	Consulting services			0
	Travel			0
	Other			0
b)	Planning/Design/Engineering			0
c)	Equipment Purchases/Rentals/Rebates/Vouchers			0
d)	Materials/Installation/Implementation			0
e)	Implementation Verification			0
f)	Project Legal/License Fees			0
g)	Structures			0
h)	Land Purchase/Easement			0
i)	Environmental Compliance/Mitigation/Enhancement			0
j)	Construction			0
k)	Other (Specify)			0
l)	Monitoring and Assessment			0
m)	Report Preparation			0
n)	SUBTOTAL (a +..... +m)			0
o)	Contingency (specify % used)			0
p)	TOTAL (n +o)			0
q)	Capital Recovery Factor: Use Table C-7			
r)	Annual Project Costs (p x q)			0
s)	Applicant Cost Share - Proportion (row p, columns II / IV)			

Table C-2: Operations and Maintenance

- Include annual administration, operations and maintenance and other annual costs.

Table C-2: Annual Operations and Maintenance Costs

Operations (1) (I)	Maintenance (II)	Other (III)	Total (IV)
			0

(1) Include annual O&M administration costs under Operations, column (I).

Table C-3: Total Annual Project Costs

- Sum of annual project costs (C-1) and annual operations and maintenance costs (C-2)

Table C-3: Total Annual Project Costs

Annual Project Costs (2) (I)	Annual O & M Costs (3) (II)	Total Annual Project Costs (III) (I + II)

(1) From Table C-1, row (r) column (IV)

(2) From Table C-2, column (IV)

Table C-4

Local Benefit

- Quantify annual water savings and other benefits within applicant's service area.
- Describe how these values were determined

Represents benefits not eligible for funding

Table C-4: Local Benefits

Annual local net water savings (AF) (4)	(A)	0
Annual local Water Supply Savings (salt load reduction) (AF) (4)	(B)	0
Annual local change in diversions for in-stream flow/timing (AF) (4)	(C)	0
Annual local water quality benefits (use applicable units) (4)	(D)	0

(1) Estimate the annual local portion of water-use efficiency benefits within the applicant's service area.

This represents the portion of benefits not eligible for funding. Complete only what is applicable to your project. Provide documentation and summary for all assumptions, methodologies, and computations (see pages 13-15).

Table C-5a-b:

Bay Delta Net Water Savings, & Other Water Supply Benefits

Table C-6a-b:

Bay-Delta In-Stream Flow and Timing, & Other Benefits

- C-5a – C-5b
 - Evaluate estimated annual net water savings
 - Evaluate estimates of annual water supply savings from salt load modification practices
- C-6a – C-6b
 - Estimate water quality and other environmental benefits

Table C-5a: Bay-Delta Net Water Savings

Estimated Bay-Delta Annual Net Water Savings (AF) (5)	(E)	0
--	-----	---

- (1) Estimated Bay-Delta annual net water savings - Provide documentation and summary for all assumptions, methodologies, and computations (see page 13).

Table C-5b: Other Bay-Delta Water Supply Benefits

Total Annual Salt Reduced (tons) (6)	(F)	0
Estimated Annual Water Supply Savings (AF) (7)	(G)	0

- (2) Estimate the total mass of annual salt reduced (tons). Please include an explanation of how the salt reductions were estimated for your project.
- (3) Estimate Bay-Delta annual water supply savings: - Provide the annual water supply savings of the project as a result of water conservation and salt load modification practices. Provide documentation and summary for all assumptions, methodologies, and computations (see page 13).

Table C-6a: Bay-Delta In-stream Flow and Timing Benefits

Estimated Bay-Delta annual change in diversions for in-stream flow and timing (AF) (8)	(H)	0
---	-----	---

- (1) Estimate the volume of savings from change in diversions contributing to in-stream flow and timing in the Bay-Delta System.

Please include an explanation of how these savings (af/yr) were estimated for your project and provide a monthly time step. If the changes vary, please provide the year type (wet, above normal, below normal, dry or critical) schedule of volume.

Provide documentation and summary for all assumptions, methodologies, and computations (see page 13).

Table C-6b: Other Bay-Delta Water Quality and Environmental Benefits

Estimated Bay-Delta benefits. Use applicable parameters and units. (9)	(I)	0
---	-----	---

- (1) Quantify where possible and describe qualitatively in a narrative any water quality (for example, salinity reduction by 50 parts per million (ppm); temperature benefits (temperature reduction by 2 degrees) or other environmental benefits to the Bay-Delta that will be achieved from the project.

Provide documentation and summary for all assumptions, methodologies, and computations.

Clearly identify what the project is expected to achieve (see page 13).

Table C-7: Total Amount of Water Saved

- C-7
 - Computes unit costs (\$ / AF) of annual water savings with and without local agency cost share
 - Generated from C-1 through C-6

Table C-7: Total Amount of Water Saved

Total Bay-Delta Annual Water Savings (AF): (10)	(J)	$[(C-5a,E) + (C-5b,G) + (C-6a,H)]$	0.00
Total Annual Project Costs (11)	(K)		\$0.00
Cost per AF Saved	(L)	(K/J)	\$0.00
Applicant's Cost Sharing -Proportion	(M)	(Table C-1, row s, column II)	
Cost per AF Saved with Applicant Contribution	(N)	$L \times (1.00 - M)$	\$0.00

(1) Add Bay-Delta Water Savings: Table C-5a, row (E); Table C-5b, row (G); and Table C-6a, row (H).

(2) From Table C-3, column III: Total Annual Project Costs

Table C-8: Capital Recovery Factor Table

- C-8

- Reference table used in C-2

Table C-8: Capital Recovery Factor Table

Life of Project (in years)	Capital Recovery Factor	Life of Project (in years)	Capital Recovery Factor
1	1.0600	26	0.0769
2	0.5454	27	0.0757
3	0.3741	28	0.0746
4	0.2886	29	0.0736
5	0.2374	30	0.0726
6	0.2034	31	0.0718
7	0.1791	32	0.0710
8	0.1610	33	0.0703
9	0.1470	34	0.0696
10	0.1359	35	0.0690
11	0.1268	36	0.0684
12	0.1193	37	0.0679
13	0.1130	38	0.0674
14	0.1076	39	0.0669
15	0.1030	40	0.0665
16	0.0990	41	0.0661
17	0.0954	42	0.0657
18	0.0924	43	0.0653
19	0.0896	44	0.0650
20	0.0872	45	0.0647
21	0.0850	46	0.0644
22	0.0830	47	0.0641
23	0.0813	48	0.0639
24	0.0797	49	0.0637
25	0.0782	50	0.0634

Section B Projects

B-1. Background, Goals and Objectives

B-2. Eligible Applicants

Includes Universities, State and Federal Agencies and applicants eligible for Section A

B-3. Eligible Projects

- Agricultural and Urban water use efficiency R&D, feasibility studies, pilot demonstration
- Statewide agricultural and urban water use efficiency training, education or public education programs
- Statewide agricultural and urban technical assistance programs

Section B: Selection Criteria

Criteria	R&D, Feasibility Studies, Pilots, Demos	Training, Education, Public Info.	Technical Assistance
Relevance and Importance	10	15	10
Technical / scientific merit, feasibility,	25	20	25
Monitoring and Assessment	25	10	15
Qualifications of the Applicants	5	5	5
Outreach, community involvement, and acceptance	10	25	20
Innovation	10	10	10
Benefits and costs	15	15	15

Section B: Proposal Contents

- Same as Section A projects except as noted in PSP
(See PSP pg. 19 & pg. 20.)
- Describe how results will be disseminated for projects conducted exclusively in labs
- Benefits and Costs
 - Complete Table C-1 (Budget) only
 - Describe potential benefits and information to be gained
 - Compare potential benefits to anticipated costs
- Statement of Work, in addition to Section A
 - Provide additional information for R&D, Training, Education/Outreach, Technical Assistance (See PSP, pg. 20.)

Questions and Comments

- Questions?

Debra Gonzalez

DWR, Office of Water Use Efficiency

(916) 651 – 7026

debrag@water.ca.gov

Remember the Date!

- 2004 Water Use Efficiency Proposal Solicitation Package

- Due Date:

**OCTOBER 12, 2004
RECEIVED AT DWR
NO LATER THAN 3:00 PM**

**1416 Ninth Street Rm. 338
Sacramento, CA 95814**

