

**Consolidated Water Use Efficiency 2002 PSP
 Proposal Part One:
 A. Project Information Form**

1. Applying for (select one): (a) Prop 13 Urban Water Conservation Capital Outlay Grant
 (b) Prop 13 Agricultural Water Conservation Capital Outlay Feasibility Study Grant
 (c) DWR Water Use Efficiency Project

2. Principal applicant (Organization or affiliation): Bear Valley Community Services District

3. Project Title: Residential HEWM Rebate

4. Person authorized to sign and submit proposal:

Name, title	<u>John C. Yeakley</u>
Mailing address	<u>28999 S. Lower Valley Road</u>
Telephone	<u>661.821.4428</u>
Fax.	<u>661.821.0180</u>
E-mail	<u>bvcsd@csurfers.net</u>

5. Contact person (if different):

Name, title.	<u>John Martin</u>
Mailing address.	<u>28999 S. Lower Valley Road</u>
Telephone	<u>661.821.4428</u>
Fax.	<u>661.821.0180</u>
E-mail	<u>bvcsd@csurfers.net</u>

6. Funds requested (dollar amount): 18750

7. Applicant funds pledged (dollar amount): 23750

8. Total project costs (dollar amount): 42500

9. Estimated total quantifiable project benefits (dollar amount): 55126
 Percentage of benefit to be accrued by applicant: 74
 Percentage of benefit to be accrued by CALFED or others: 26

**Consolidated Water Use Efficiency 2002 PSP
 Proposal Part One:
 A. Project Information Form (continued)**

10. Estimated annual amount of water to be saved (acre-feet): 4.3
- Estimated total amount of water to be saved (acre-feet): 43
- Over ___ years 10
- Estimated benefits to be realized in terms of water quality, instream flow, other: 0
11. Duration of project (month/year to month/year): 04/02 to 06/07
12. State Assembly District where the project is to be conducted: 34
13. State Senate District where the project is to be conducted: 17
14. Congressional district(s) where the project is to be conducted: 21
15. County where the project is to be conducted: Kern
16. Date most recent Urban Water Management Plan submitted to the Department of Water Resources: N/A
17. Type of applicant (select one):
- Prop 13 Urban Grants and Prop 13 Agricultural Feasibility Study Grants:
- (a) city
 - (b) county
 - (c) city and county
 - (d) joint power authority
 - (e) other political subdivision of the State, including public water district
 - (f) incorporated mutual water company
 - (g) investor-owned utility
 - (h) non-profit organization
 - (i) tribe
 - (j) university
 - (k) state agency
 - (l) federal agency
- DWR WUE Projects: the above entities (a) through (f) or:

18. Project focus: (a) agricultural
 (b) urban

Consolidated Water Use Efficiency 2002 PSP

Proposal Part One:

A. Project Information Form (continued)

19. Project type (select one):
Prop 13 Urban Grant or Prop 13
Agricultural Feasibility Study Grant
capital outlay project related to:
- (a) implementation of Urban Best Management Practices
- (b) implementation of Agricultural Efficient Water Management Practices
- (c) implementation of Quantifiable Objectives (include QO number(s))
-
- (d) other (specify)
-

- DWR WUE Project related to:
- (e) implementation of Urban Best Management Practices
- (f) implementation of Agricultural Efficient Water Management Practices
- (g) implementation of Quantifiable Objectives (include QO number(s))
- (h) innovative projects (initial investigation of new technologies, methodologies, approaches, or institutional frameworks)
- (i) research or pilot projects
- (j) education or public information programs
- (k) other (specify)
-

20. Do the actions in this proposal involve physical changes in land use, or potential future changes in land use?
- (a) yes
- (b) no

If yes, the applicant must complete the CALFED PSP Land Use Checklist found at http://calfed.water.ca.gov/environmental_docs.html and submit it with the proposal.

**Consolidated Water Use Efficiency 2002 PSP
Proposal Part One
B. Signature Page**

By signing below, the official declares the following:

The truthfulness of all representations in the proposal;

The individual signing the form is authorized to submit the proposal on behalf of the applicant; and

The individual signing the form read and understood the conflict of interest and confidentiality section and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant.

Signature

Name and title

Date

Prop 13 Urban Water Conservation Grant Proposal Part Two

Project Summary

The Bear Valley Community Services District is a member of the California Urban Water Conservation Council, and as such, implements the fourteen best management practices for urban water conservation. As of this writing, BVCS D does not implement BMP #6, however, a recent recalculation of the cost-benefit analysis for BMP #6 reveals that a \$75 rebate is cost effective for BVCS D. The purpose of this project is to get additional money to double that rebate to \$150 per HEWM. It is estimated that the \$150 rebate combined with rebates offered by SCE or PG&E will result in the installation of an additional 50 HEWMs in the BVCS D service area per year. This will result in 0.78 acre feet of water savings in the first year and an additional amount every year after that (1.56 af in year two, 2.34 af in year three, etc). Over a ten-year period, this will save 43 acre feet of water.

A. Scope of Work: Relevance and Importance

1. Nature, scope and objectives of the project

BVCS D has 2,400 residential water connections in total with approximately 50 to 70 new accounts added each year. If the grant is awarded, we will implement a \$150 rebate for the purchase and installation of a high-efficiency washing machine within our service area. Of the estimated 200 new washing machines purchased within our service area each year, we estimate that one-quarter of them will be HEWMs if the \$150 rebate is available.

2. Statement of critical, local, regional, Bay-Delta, state or federal water issues

In 1992, development in Bear Valley Springs reached the point that local water resources (within the Bear Valley Springs watershed) are inadequate to meet peak summer demand. The local watershed provides 750 to 850 acre feet of water annually, depending on precipitation. Approximately 200 acre feet is produced by alluvial wells and another 550 to 650 acre feet is produced by deep hard-rock wells. Any water demand above this is imported from Cummings Valley, an adjudicated basin adjacent to Bear Valley Springs. BVCS D operates a conjunctive-use program in Cummings Valley whereby State Project water is purchased to recharge well water drawn for importation on a one-for-one basis. Any additional supplies imported into Bear Valley Springs has a direct impact on the State Water Project and, therefore, on the Bay-Delta.

Only forty-eight acre feet of water was imported in 1998. This has grown dramatically over the past four years, growing to 219af in 1999, 412af in 2000 and 549af in 2001. This water is not limitless therefore it must be conserved. Moreover, BVCS D is not the only water user in Cummings Valley; there are dozens of farming interests, hundreds of single family residences, an elementary school and a major California Correctional Facility.

Since BVCS D serves less than 3,000 customers and/or less than 3,000 acre feet per year, we are not required to submit a water management plan.

B. Scope of Work: Technical/Scientific Merit, Feasibility, Monitoring and Assessment

1. Methods, procedures and facilities

This is a simple program which requires the following:

- ?? A commitment from the BVCSD Board of Directors to institute a HEWM rebate program.
- ?? Matching funds from CALFED
- ?? An effective advertising campaign to generate customer demand for HEWM replacements.

BVCSD stands ready and able to execute this plan if the grant is awarded.

2. Task list and schedule

The schedule for this project is as follows:

4/15/02	Receive notice of funding
5/1/02	Execute grant contract; do press release to newspapers
6/1/02	Advertise rebates in monthly water bills
7/4 to 7/6/02	Distribute information about HEWM rebates from the BVCSD and power utilities from our water conservation booth at the July 4 th community celebration
8/1 to 9/1/02	Meet with community based civic groups to develop additional information channels
by 6/30/03	Issue 50 HEWM rebates
each year	Issue 50 additional HEWM rebates

3. Monitoring and assessment:

The Project Manager, who is the Assistant General Manager, will ensure that implementation is on pace to meet the implementation target. Adjustments, such as reassignment of resources, advertising thrusts, marketing strategies, etc, will be made as needed to keep implementation on track. Data will be stored in the district's water billing software files, attached to the location maintenance files. All of this information will be fully accessible at all times and can be retrieved using any sort criteria desired.

BVCSD will send a customer satisfaction survey to each customer one year after receiving a HEWM. The survey will request customer feedback on the operation of their particular HEWM(s) and ask for suggestions of how the program can be improved. We will use the survey results in our future HEWM advertising campaigns.

4. Preliminary plans and specifications and certification statements

A total of 50 HEWM rebates will be issued for \$150 each per year:

I hereby certify that the project contained herein (*issue 50 HEWM rebates for \$150 each per year*) is feasible. I further certify that all quantities, prices, schedules, estimates and other material information is sufficiently accurate and dependable to meet the needs of the grant proposal as specified in the solicitation package.

Signed: _____
John C. Yeakley, P.E.

C. Qualifications of the Applicants and Cooperators

1. Resume of the project manager, see Attachment A
2. External cooperators

BVCSD will seek the assistance of community-based civic and fraternal organizations, including BVS Men’s Service Club, BVS Women’s Club, BVS Community Council, BVS Sportsmens’ Club, Bear Valley Springs Property Owners’ Association to advertise the program.

D. Benefits and Costs

1. Budget breakdown and justification

The following figures are estimates issue 50 HEWM rebates each year for five years:

Rebates:		
	50 rebates of \$150 each per year for five years	\$37,500
Advertising		\$ 2,500
Record Keeping*		2,500
Evaluation and Reporting*		<u>5,000</u>
Total Costs		\$47,500

* Most of these costs are for in-house labor. Disposal costs are not included because it is assumed that customers in the market for a new washing machine will be disposing of their old one regardless of which new model they chose for replacement.

2. Cost-sharing.

Since BVCSD provides both water and sewer service to Bear Valley Springs, no cost-sharing with other agencies is anticipated.

3. Benefit summary and breakdown

a. quantifiable: Four hundred old, inefficient toilets will be replaced with new, high-quality ultra-low-flush-toilets. At least 500 households will be impacted. Over a ten year period 43 acre feet of water will be saved. Using year 2001 dollars, this is a savings to BVCSD of \$40,936 in avoided marginal operating and capacity costs. Every one of the 43 acre feet of water that will be conserved is water that would have come from the Bay-Delta. As stated previously, the Bear Valley Springs watershed has a limited production capacity of 750 to 850 acre feet per year. Our demand reached that limit in 1992 and since then we have had to import water from the State Water Project. Please don’t make the mistake of assuming that the savings are realized only during the peak pumping season. Every single acre foot of water saved is a direct benefit to CALFED. As to how much this is worth to CALFED, we can only guess. However, for \$37,500 we can have 500 new HEWMs installed within ten years which will save 43 acre feet of water over a ten-year period, which calculates out to \$872 per acre foot. Water savings will continue to accrue after the ten-year period, but what is not certain is how many of the HEWMs will remain within the districts service area.

CALFED benefits are assumed to be \$330 per acre foot. This is the figure cited in the CUWCC publication Guidelines for Preparing Cost-Effectiveness Analyses of Urban Water Conservation Best Management

Practices for State Water Project water delivered to the Metropolitan Water District of Southern California (page2-10) The dollar value of the CALFED benefits for this project, therefore, is \$14,190 (43af x \$330 each).

b. not quantifiable: At least five hundred households will be added to those who participate in water conservation programs. This will encourage our customers to participate in other water conservation programs as well, not only within Bear Valley Springs, but in any community they might move to.

In addition, if this grant is awarded, it will be the first urban water use efficiency grant awarded to an agency in the San Joaquin Valley area. There has been much focus on agricultural water conservation in Kern County, and rightfully so, however, urban water conservation efforts need to be showcased as well. If this grant is awarded, BVCS D will issue press releases to all local newspapers including the Bakersfield Californian.

Moreover, if this grant is awarded, it will demonstrate to other small water agencies that they too can qualify for water use efficiency grants even though they lack the technical sophistication of larger agencies and can't afford to hire expensive consultants and engineers to chase grants. It will also demonstrate that water use efficiency programs are appropriate for communities that are not in the large metropolitan areas.

4. Assessment of costs and benefits, see Attachment B

E. Outreach, Community Involvement and Acceptance

The ULFTs will be marketed through the BVCS D quarterly newsletter, three local newspapers, our water conservation booth at the July 4th celebration and through local civic groups.

There is no community opposition to this project.

JOHN MARTIN

29541 Butterfield Way • Tehachapi, CA 93561 • 661.821.1516

OBJECTIVE

To secure a Proposition 13 urban water conservation program grant to purchase and distribute 400 residential ultra-low flush toilets by June 30, 2004.

EMPLOYMENT

ASSISTANT GENERAL MANAGER 1993 TO PRESENT
Bear Valley Community Services District Tehachapi, California

Responsibilities include oversight of all financial functions, including budgeting, accounts payable and receivable, payroll, general ledger and reporting, including the analysis of trends and projections; fiduciary duties as Treasurer of the district; administration of the district's injury and illness prevention program as the designated Safety Officer of the district; administration of the water conservation program as the designated Water Conservation Coordinator of the district; administration of the district's emergency preparedness program acting as the liaison with the district's citizen-volunteer Disaster Council; oversight of all office procedures including water billing and related customer service; management of all district functions in the absence of the General Manager.

KEY CARRIER 1976 TO 1993
Vons Grocery Company Bakersfield, California

Responsibilities included supervision of retail store operations during evening hours, including the security of cash, customer service, personnel management, oversight of nighttime stocking operations and store security. The key carrier position was held from 1988 to 1993. Previous to 1988, job responsibilities included receiving clerk, warehouse clerk, checker, stock clerk and courtesy clerk.

EDUCATION

MASTER OF PUBLIC ADMINISTRATION 1996
California State University, Bakersfield Bakersfield, California

BACHELOR OF ARTS; PUBLIC ADMINISTRATION 1992
California State University, Bakersfield Bakersfield, California

SKILLS

Management of a large number of dissimilar tasks simultaneously.
Excellent service to customers and the public in a friendly and professional manner.
Execution of many software programs, including all Microsoft office products (Word, Excel, etc.) and Corel office products (WordPerfect, Quattro Pro, etc.) as well as the Multiple Operations Management Software of Corbin Willits Systems (general ledger, payroll, utility billing, purchase order, accounts payable and receivable, cash management and utility billing).