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:	Pressure reducing station	
4. Person authorized to sign and submit proposal:	Name, title	John C. Yeakley
	Mailing address	28999 S. Lower Valley Road
	Telephone	661.821.4428
	Fax.	661.821.0180
	E-mail	bvcsd@csurfers.net
5. Contact person (if different):	Name, title.	John Martin
	Mailing address.	28999 S. Lower Valley Road
	Telephone	661.821.4428
	Fax.	661.821.0180
	E-mail	bvcsd@csurfers.net
6. Funds requested (dollar amount):		25000
7. Applicant funds pledged (dollar amount):		0
8. Total project costs (dollar amount):		**25000**
9. Estimated total quantifiable project benefits (dollar amount):		**115380**
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): **3**

    Estimated total amount of water to be saved (acre-feet): **90**

    Over ___ years **30**

    Estimated benefits to be realized in terms of water quality, instream flow, other: **0**

11. Duration of project (month/year to month/year): 4/02 to 9/02

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

    DWR WUE Projects: the above entities (a) through (f) or:

    - ☐ (g) investor-owned utility
    - ☐ (h) non-profit organization
    - ☐ (i) tribe
    - ☐ (j) university
    - ☐ (k) state agency
    - ☐ (l) federal agency

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. We Implement BMP #3, water system audits, and have found that, system-wide, our water losses are less than 10% of production. However, we have one troublesome zone in our system, which has severely excessive pressure (170 to 220 psi) and which is subject to regular pipe breakage. We propose to use the grant money to install a pressure reducing station at a cost of $25,000. By so doing, we will conserve water that otherwise would have been lost to pipes bursting. There will also be a reduction in water consumption by the sixteen customers in the high pressure zone. We estimate that the pressure reducing station will provide 3 acre feet per year of reliable water savings. Over the useful life of the project (assumed to be 30 years), we will conserve 90 acre feet of water in this manner.

A. Scope of Work: Relevance and Importance

1. Nature, scope and objectives of the project

The objective of this project is to install one pressure reducing station to reduce pressure from 170-220 psi to 100-120 psi.

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. BVCSD 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, BVCSD 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 BVCSD 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

See attached engineer's report. 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	Issue bid specifications and solicitation package
6/20/02	Receive bids
7/13/02	Award contract
8/1/02	Construction begins
9/30/02	Construction completed

3. Monitoring and assessment:

The Project Manager, who is the Assistant General Manager, will work with the engineer to ensure that the project is completed as presented.

4. Preliminary plans and specifications and certification statements

Please see attached engineer's report.

C. Qualifications of the Applicants and Cooperators

1. Resume of the project manager: See Attachment A

2. External cooperators: None

D. Benefits and Costs

Budget breakdown and justification: Please see attached engineer's report.

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: It is estimated that the district will save two acre feet per year from avoided system water breaks in the high-pressure zone. In addition, it is estimated that customers in the area will reduce consumption 10% if their pressure is reduced to a normal level, which equals one acre foot per year for a combined savings of three acre feet per year from this project. Over the life of the project, estimated to be 30 years, 90 acre feet of water will be saved. Using year 2001 dollars, this is a savings to BVCSD of $85,680 in avoided marginal operating and capacity costs. Every one of the 90 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 $25,000 we can have a pressure reducing station installed which will save 90 acre feet of water over a thirty-year period, which calculates out to $278 per acre foot.

CALFED benefits are assumed to be $330 per acre foot. This is the figure cited in the CUWCC publication Guideline for Preparing Cost-Effectiveness Analyses of Urban Water Conservation Best Management Practices for State Water Project delivered to the Metropolitan Water District of Southern California (page 2-10). The dollar value of the CALFED benefits for this project, therefore, is $29,700 (90 acre feet x $330 each).

b. not quantifiable: This project will provide goodwill to our customers in the area.

4.Assessment of costs and benefits

All of BVCSD=s marginal water supply comes from Cummings Valley, an adjudicated basin adjacent to Bear Valley Springs. BVCSD produces potable water from wells within Cummings Valley and purchases an equal amount from the Tehachapi-Cummings County Water District to recharge the basin. The water is then pumped over the hill separating the two basins and into the BVCSD system. The marginal operating cost of potable water, therefore, is the cost to purchase and pump Cummings Valley water plus the variable operating costs to produce and deliver potable water. In fiscal year 2000-01 variable costs were $63 per acre foot. Only variable costs are considered because fixed costs do not vary with the quantity of water delivered. Marginal operating costs per acre foot are:

Variable operating costs	$ 63
Purchase Cummings Valley water	375
Pump CV water to BV main level	181
Total Marginal Operating Cost	$ 619

Marginal capacity cost is estimated to be $333 per acre foot. Per our engineer=s report for BVCSD water capacity fee (revised 2002), a $5,000 capacity fee per new house or equivalent dwelling unit provides 0.5 acre foot of potable water per year per house for construction of wells and pipeline for new water supply. Assuming a 30-year useful life for the new facilities yields a marginal capacity cost of $333 ($5,000 / .5 acre feet per year / 30 years). The total avoided water supply cost for BVCSD, therefore, is $952 per acre foot ($619 + $333).

So, the value of the water saved is $2,856 per year ($952 x 3 acre feet) and $85,680 over the 30-year life of the project. Therefore, the project is cost effective for the district since we will save $85,680 worth of water, but the project cost is only $25,000.

E. Outreach, Community Involvement and Acceptance

There is no community opposition to this project.

Attachment A

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, BakersfieldBakersfield, California

BACHELOR OF ARTS; PUBLIC ADMINISTRATION 1992
California State University, BakersfieldBakersfield, 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).