

**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): **Hi-Desert Water District**
3. Project Title: **Yucca Valley Water Conservation Program**
4. Person authorized to sign and submit proposal:
- |                 |  |
|-----------------|--|
| Name, title     | <b>Lee Pearl, General Manager</b>                    |
| Mailing address | <b>55439 29 Palms Hwy<br/>Yucca Valley, CA 92284</b> |
| Telephone       | <b>760.365.8333</b>                                  |
| Fax.            | <b>760.365.0599</b>                                  |
| E-mail          | <b>leep@hdwd.com</b>                                 |
5. Contact person (if different):
- |                  |  |
|------------------|--|
| Name, title.     | <b>Pat Grady, Asst. to the General Manager</b>       |
| Mailing address. | <b>55439 29 Palms Hwy<br/>Yucca Valley, CA 92284</b> |
| Telephone        | <b>760.365.8333</b>                                  |
| Fax.             | <b>760.365.0599</b>                                  |
| E-mail           |  |
6. Funds requested (dollar amount): **\$ 212,400**
7. Applicant funds pledged (dollar amount): **\$ 23,600**
8. Total project costs (dollar amount): **\$ 236,000**
9. Estimated total quantifiable project benefits (dollar amount): **\$346,500 (avoided cost)**
- Percentage of benefit to be accrued by applicant: **100%**
- Percentage of benefit to be accrued by CALFED or others:

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Proposal Part One:

A. Project Information Form (continued)

10. Estimated annual amount of water to be saved (acre-feet): 77 AF
- Estimated total amount of water to be saved (acre-feet): 1,540 AF
- Over 20 years 1,540 AF
- Estimated benefits to be realized in terms of water quality, instream flow, other: N/A
11. Duration of project (month/year to month/year): 11/2002 - 11/2004
12. State Assembly District where the project is to be conducted: 65th
13. State Senate District where the project is to be conducted: 31st
14. Congressional district(s) where the project is to be conducted: 40th
15. County where the project is to be conducted: San Bernardino
16. Date most recent Urban Water Management Plan submitted to the Department of Water Resources: 12/2000
17. Type of applicant (select one):
- (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

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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://calfedwater.ca.gov/environmental\\_docs.html](http://calfedwater.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.

	<b>Lee Pearl, General Manager</b>	
Signature	Name and title	Date

## Part Two

### Project Summary

The proposed project would supplement current District water conservation programs by distributing free ultra low flush (ULF) toilets and showerheads to residential customers.

The total project cost is \$236,000 with a 10% cash match by the District, excluding “in kind services”.

#### *Objectives*

District objectives include: 1) Permanent annual water savings in the District of over 25 million gallons per year; 2) Reduced nitrate pollution currently impacting three of the District’s most productive water sources caused by septic system lack of maintenance and failures.

The Hi-Desert Water District (District) is located in the south central portion of San Bernardino County about 50 miles east of the City of San Bernardino, the seat of the County Government and is 30 minutes from the Coachella Valley (Palm Springs). The District, encompassing the Town of Yucca Valley and adjacent rural areas, is located in the high desert on the southern edge of the Mojave Desert. State Highway 62 provides primary access. The total area of the District is approximately 43 square miles.

Due to conservation efforts first implemented in 1989 by the District, water production per connection and water use per capita has decreased. According to the most recent Water Supply Master Plan prepared by Egan (1995), the District’s per capita use is 0.15 acre feet per year (AFY). This may be one of the lowest water usages per capita in the State. Annual water usage per dwelling is estimated to be .286 acre feet (AF). The total current population the District serves is 24,342. There are currently 8,800 service connections in the District service area (about 9,546 residential and commercial units).

### A. Scope of Work: Relevance and Importance

#### *Nature, Scope, and Objectives of the Project*

The proposed project would supplement current District water conservation programs as follows:

State Water Project (SWP) water is an additional source of water for the greater Yucca Valley area. The service area of the District is located within Division 2 of the Mojave Water Agency (MWA). Division 2 has an entitlement of 7,257 AFY of SPW or 1/7 of MWA’s allocation. The District has an entitlement to 59% (4,282 AF) of the amount allocated to Division 2. The other participating agencies within Division 2 include Joshua Basin Water District, Bighorn-Desert View Water Agency, and the County of San Bernardino. Currently the District is the only water district recharging SWP water. This action reduces the impact of drought periods and reduces dependence on SWP water during droughts.

SWP water is imported via the Morongo Basin Pipeline, a \$52 million project consisting of approximately 71 miles of 36 and 30 inch pipeline beginning at the California Aqueduct in Hesperia and terminating at a regulatory reservoir located at Warren Vista Avenue and Aberdeen Drive in Yucca Valley. The capacity of the pipeline is nearly 11,000 AFY allowing for delivery of additional water when available. In June 1990 more than a two-thirds of the voters approved the financing plan for the Morongo Basin Pipeline. In January 1995, the District started receiving SWP water via the Morongo Basin Pipeline and the 24 inch Hi-Desert Pipeline Extension from the terminating reservoir in Yucca Valley.

Residents of Yucca Valley are aware of the importance of water conservation. This proposed program would further reduce the dependency on SWP water thereby creating a beneficial impact on the Bay Delta.

Yucca Valley is not served by a wastewater system. Septic systems have polluted three of the District's primary wells and forced the need for a nitrate removal facility. Ultimately, the District will be required to connect the community to a wastewater system. The proposed program will improve water quality with the reduction of nitrate pollution.

***Statement of critical local, regional, Bay-Delta, State or federal water issues***

The District was formed as Yucca Valley County Water District in 1962 by combining the assets of several water companies. In 1977 a judgment determined that the Warren Valley Basin serving the District would only supply water for its projected population until about 1985. Water became the most important issue in the region. In 1992 the Court ordered the Warren Valley Basin Watermaster to report on an annual basis to the Court the water levels in the Warren Valley Basin and any matter that might impact the safe yield of that basin. As a result of these determinations and actions, the District has implemented one of the most comprehensive conservation programs in the State.

The District was one of the first in the State to implement strict landscape standards and water conservation programs. This occurred around 1990. This proposed program will supplement the existing water conservation programs (attached as Appendix A).

ULF toilets normally consume 1½ gallons for every flush as compared with 4-5+ gallons per flush of older conventional toilets. The difference results in a minimum savings of 3½ gallons for every flush. Based on a conservative water savings assumption of 22 gallons of water saved per ULF toilet per day, there would be 8,030 gallons of water conserved per year in the greater Yucca Valley area.

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

***Methods, Procedures, and Facilities***

The District will use water savings data from accepted methodologies. California Urban Water Conservation Council's "A Guide to the Data and Methods for Cost Effectiveness Analysis of Urban Water Conservation Best Management Practices," July 2000 will be used for water savings formulas and calculations.

In 1991, the Court adopted the Warren Valley Basin Master Plan with a 2% growth rate scenario based on water demand. Increased water levels could be achieved by: 1) future interagency conjunctive uses using SWP water for recharge such as the District and MWA conjunctive use agreements; 2) the existing water users reduced their consumption voluntarily; 3) lower growth rates allowing additional Warren Valley Basin recharge. This proposed program will assist with increasing the water levels of the Warren Valley Basin.

## Task List and Schedule

### Quarterly Expenditure Projection

	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Qtr 7	Qtr 8
Toilets	\$0	\$32,143	\$32,143	\$32,143	\$32,143	\$32,143	\$32,143	\$32,143
Showerheads	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Advertising	\$1,000		\$1,000		\$1,000		\$1,000	
Totals	\$1,000	\$33,143	\$34,143	\$33,143	\$34,143	\$33,143	\$34,143	\$33,143
<b>Grand Total</b>								<b>\$236,000</b>

### Schedule of Tasks

Qtr	Due Date	Tasks & Deliverable Items	Projected Costs
	May 1, 2002	Project approved for funding. Contract negotiations begin.	
	July 17, 2002	HDWD Board approval of matching funds commitment letter and resolution.	
	May 1, 2002 – October 1, 2002	Contract executed	
	October 1, 2002 – November 1, 2002	Begin advertising program.	
Qtr 1	November 1, 2002	First quarterly report.	\$1,000
	November 1, 2002	First distribution toilets and showerheads (ongoing).	
Qtr 2	February 1, 2003	Second quarterly report.	\$33,143
Qtr 3	May 1, 2003	Third quarterly report.	\$34,143
Qtr 4	August 1, 2003	Fourth quarterly report.	\$33,143
Qtr 5	November 1, 2003	First quarterly report.	\$34,143
Qtr 6	February 2, 2004	Second quarterly report.	\$33,143
Qtr 7	May 1, 2004	Third quarterly report.	\$34,143
Qtr 8	August 1, 2004	Fourth quarterly ends.	\$33,143
	August 15, 2004	Final report – total expended.	\$236,000

### *Monitoring and Assessment*

To monitor the results of the program, a quarterly report will be completed by the District. The report will include the following: 1) Quarterly consumption reduction goals and actual consumption for those participating in the program, 2) District expenditure and activity data, and 3) The number of public presentations made. The information will be stored on the District's computer system with daily data backup. The information will be available to the public and grantor as needed. Quarterly reports will be submitted to the grantor.

***Preliminary Plans and Specifications***

While the proposed project comprises of the distribution of low-flow toilets and showerheads, plans and specifications are not required for implementation. Installation of the toilets and showerheads will be performed by a plumber or the homeowner. An inspection would subsequently be completed by the District to assure proper installation.

**C. Qualifications of the Applicants, Cooperators, and Establishment of Partnerships**

***Resume of Project Manager***

The resume of the Project Manager is attached as Appendix B.

***External Cooperators***

External cooperators will be used for the project. The District will use relationships and information dissemination systems at the Town of Yucca Valley, service organizations, local media, and local cable television to promote and support the proposed project.

**D. Costs and Benefits**

***Budget Breakdown***

**Year 1**

<b>Item</b>	<b>Number</b>	<b>Cost/ea</b>	<b>SubTotal</b>	<b>Total</b>
<i>Materials</i>				
ULF Toilets	1,286	\$75	\$96,450	
ULF Showerheads	429	\$7	\$3,003	
<i>Other</i>				
Advertising			\$2,000	
<i>Total Grant for First Year</i>				
				\$101,453
Less District Cash Match (10%)				-\$10,145
<b>Total CALFED Request</b>				<b>\$91,308</b>
<i>District In-Kind Services</i>				
Clerical Support	80hrs	\$18/hr	\$1,440	
Benefits for Clerical Support (13%)			\$576	
Asst to the General Manager	100 hrs	\$35/hr	\$3,500	
Benefits for Asst to GM (40%)			\$1,400	
Supplies			\$3,000	
<b>Total District In Kind Services</b>				<b>\$9,916</b>

**Year 2**

<b>Item</b>	<b>Number</b>	<b>Cost/ea</b>	<b>SubTotal</b>	<b>Total</b>
<i>Materials</i>				
ULF Toilets	1,714	\$75	\$128,550	
ULF Showerheads	571	\$7	\$3,997	
<i>Other</i>				
Advertising			\$2,000	
Total Grant for Second Year				\$134,547
Less District Cash Match (10%)				-\$13,455
<b>Total CALFED Request</b>				<b>\$121,092</b>
<i>District In-Kind Services</i>				
Clerical Support	80hrs	\$18/hr	\$1,440	
Benefits for Clerical Support (13%)			\$576	
Asst to the General Manager	100 hrs	\$35/hr	\$3,500	
Benefits for Asst to GM (40%)			\$1,400	
Supplies			\$3,000	
<b>Total District In Kind Services</b>				<b>\$9,916</b>

***Budget Justification***

Materials expenses will be for the purchase of toilets and low flow showerheads. Advertising expenses funded by CALFED will be for local radio, newspaper, and possibly cable television. All other labor costs will be “in kind” and absorbed by the District.

***Cost Sharing***

The 10% cost sharing portion of the proposed project will be derived from District revenues and budgeted for fiscal year 2002/03. Once budgeted, these funds will be obligated during the period of performance of the proposed project.

***Benefit Summary and Breakdown***

The expected primary benefit of the program is water savings. A permanent water savings will reduce the District’s supply needs and less dependence on SWP water, especially during drought periods. The cost of SWP water to the District is currently \$225 per acre foot. The actual savings will be 25+ million gallons per year or 6-7 days of winter water demand for the entire District. Using standard industry information of 21 gpd for low water toilets and 5.5 gpd for showerheads, the 2 year project will exceed 25 million gallons annually. This calculation is based upon the California Urban Water Conservation Council data. This conservative approach allows projections for the overall program to exceed those shown in this proposal. Also, toilet leaks are not part of the projections. Studies show that new fixtures will replace a percentage of leaking fixtures. This water savings can be significant.

The customers of the District will see a monetary benefit. Calculated at the lowest District water rate tier (\$1.55 per one hundred cubic feet), customers will save in total \$52,000 per year. Since the District uses a tiered system ranging from \$1.55-\$6.70 per one hundred cubic feet, the actual savings will in fact be greater.

Other financial and employment benefits will be to plumbing contractors and local suppliers of the toilets, showerheads and other hardware.

### ***Assessment of Costs and Benefits***

#### ***Assumptions***

There are two assumptions for this proposed project:

1. Customer demand for the retrofit equipment equals the request in the grant proposal.
2. Water savings in the District would equal or exceed the methodology from the California Water Conservation Council.

#### ***Present Value of the Quantified Costs and Benefits***

All costs in this proposal budget are expressed in 2001 dollars. The proposed budget assumes no changes in year two. The District will prepare a two year bid to reduce any cost changes for toilets and showerheads. Salaries will also remain constant throughout the grant period. Cost savings to customers for water has been shown in one conservative amount.

#### ***Cost Effectiveness***

While the total cost of the proposed project is \$ 236,000, total water savings over a 20 year period is estimated at 1,540 acre feet. The avoided cost is the purchase of SWP water at \$225 per acre foot. Therefore the cost to benefit ratio is calculated in the following manner:

$$\frac{\$ 346,500 (1,540 \text{ AF} \times \$225/\text{AF})}{\$ 236,000 (\text{cost of the project})} = \mathbf{1.47} \text{ (benefit/cost ratio)}$$

## **E. Outreach, Community Involvement, and Information Transfer**

### ***Outreach Efforts***

Compared to Bay Area communities, Yucca Valley serves a much lower income sector. For the region, median home values are lower than most of San Bernardino County and the nearby Coachella Valley, and much lower than the Bay Area. Median home values are below \$120,000 and a home in the range of \$100,000 is easily attainable.

The program would serve all income levels. The District currently offers a credit to low income residents in the 80% of poverty income.

***Training, Employment, and Capacity Building Potential***

Most individuals participating in the program will perform the plumbing improvements. Upon request by program participants, the District will provide a list of licensed plumbers. It would be unusual for these professionals to come from outside the District because of the isolated location of the community.

***Plan for Dissemination Information***

Outreach will use current systems including: Internet ([www.hdwd.com](http://www.hdwd.com)), local cable television (District board meetings and work sessions are broadcast on the local cable channel), newsletters, bill inserts, and the local radio and newspaper.

The greater Yucca Valley area has one radio station and one newspaper (twice weekly). These media will help create interest in the program and promote the water conservation and financial benefits to the homeowners.

The District's public information department will provide outreach to include service clubs, schools, other groups, and the town of Yucca Valley government.

***Letter to Cooperating Agencies***

Attached, as Appendix C, is a letter informing the Town of Yucca Valley of this application.

## Ordinance No. 70 (Excerpts)

An Ordinance of the Board of Directors of the  
Hi-Desert Water District, San Bernardino, California,  
Establishing Conditions, Prohibitions, and Restrictions on  
Landscape Irrigation Meters

**Section 3. Applicability**

This ordinance applies to all new and rehabilitated landscaping installed after the effective date of this ordinance for public agency projects and private development projects that are served by a separate irrigation meter, including but not limited to, industrial, commercial, and recreational projects, and developer-installed landscaping in multi-family residential developments, and any other landscaped areas served by a separate irrigation meter.

**Section 4. Exceptions**

This ordinance shall not apply to:

- (1) Homeowner-installed landscaping at single-family and multi-family projects.
- (2) Cemeteries.
- (3) Registered historical sites.
- (4) Ecological restoration projects and mined-land reclamation projects that do not require a permanent irrigation system.
- (5) Any project with a Landscaped Area less than 500 square feet.

**Section 5. Definitions**

The words used in this ordinance have the meaning set forth below:

- A. "ALLOWABLE PERCENTAGE" or "ET ADJUSTMENT FACTOR" means a factor of 0.66 that, when applied to Reference Evapotranspiration adjusts for plant factors and Distribution Uniformity (as set forth in Exhibit A), and determines the Maximum Allowable Water Budget for an individually metered Landscaped Area.
- B. "ALLOWABLE PERCENTAGE" or "ET ADJUSTMENT FACTOR" for Recreational Areas, means a factor of 0.85 that, when applied to Reference Evapotranspiration adjusts for plant factors and Distribution Uniformity, and determines the Maximum Allowable Recreation Area Water Budget.

- C. "CROP COEFFICIENT" OR "KC" means a factor, expressed as a decimal, that, when multiplied by Reference Evapotranspiration, estimates the amount of water used by a specific plant. A list of plants and their corresponding KC values is set forth in the Water Use Classification of Landscape Species (WUCOLS) Guide published by the University of California Cooperative Extension. A copy of the WUCOLS Guide will be maintained in the Hi-Desert Water District's headquarters for review and photocopying at the applicant's expense.
- D. "ESTIMATED ANNUAL WATER USE" or "EAWU" means the Estimated Annual Water Use for the Landscaped Area as calculated in the Landscape Documentation Package pursuant to Section 7 below. It is based upon Reference Evapotranspiration, the Crop Coefficient of the plants involved, and the size of the Landscaped Area. The EAWU for a Landscaped Area equals the sum of the estimated water use of all Hydrozones in the project's Landscaped Areas. The EAWU for the Landscaped Area shall not exceed the Maximum Allowable Water Budget for the Landscaped Area. The method for calculating Estimated Annual Water Use is set forth in Exhibit "A."
- E. "ESTABLISHMENT PERIOD" means the first 12 months after installation of the plants in the Landscaped Area.
- F. "EVAPOTRANSPIRATION" means the quantity of water evaporated from adjacent soil surfaces and transpired by plants during a specific time.
- G. "HYDROZONE" means a portion of the Landscaped Area having plants with similar water needs that are served by a valve or a set of valves with the same schedule.
- H. "LANDSCAPE DOCUMENTATION PACKAGE." For projects with a Landscaped Area between 500 and 2,500 square feet, a Landscape Documentation Package means completed worksheets including all information as specified in Exhibits A, B and C to this Ordinance. For projects with a Landscaped Area of 2,500 square feet or greater, a Landscape Documentation Package means a Title Sheet, a Layout and Grading Plan, a Planting Plan, an Irrigation Plan, and completed worksheets including all information as specified in Exhibits A, B and C to this Ordinance, signed by a California registered landscape architect. For Recreational Areas, a Landscape Documentation Package means a Planting Plan, an Irrigation Plan and completed worksheets including all information as specified in Exhibits A, C and D to this Ordinance signed by a California registered landscape architect.
- I. "LANDSCAPED AREA" means the entire area served by an individual irrigation meter less the building footprint, driveways, non-irrigated portions of parking lots, hardscapes such as decks, patios, and walkways, and other non-porous areas.
- J. "MAXIMUM ALLOWABLE WATER BUDGET" means the annual maximum allowable water use calculated for the Landscaped Area pursuant to Section 7. It is based upon the Reference Evapotranspiration, the Allowable Percentage, and the size

of the Landscaped Area. The method for calculating Maximum Allowable Water Budget is set forth in Exhibit "B."

- K. "MAXIMUM ALLOWABLE RECREATIONAL AREA WATER BUDGET" means the annual maximum allowable water use calculated for the Recreational Area pursuant to Section 7. It is based upon the Reference Evapotranspiration, the Allowable Percentage defined for the Recreational Area, and the size of the Recreational Area. The method for calculating Maximum Allowable Recreational Area Water Budget is set forth in Exhibit "D."
- L. "MONTHLY ADJUSTMENT FACTOR" or "MAF" means a factor, expressed as a decimal, that, when multiplied by the Maximum Allowable Water Budget for a Landscaped Area, determines the Monthly Maximum Allowable Water Budgets for that project. MAFs are based upon monthly historic average Reference Evapotranspiration for the Victorville California Irrigation Management Information System ("CIMIS") Service Area, Sunset Climate Zone 11, and WULCOS Guide Region No. 5 (High and Intermediate Desert Region). The MAFs for the twelve months of the year are listed in Exhibit "C."
- M. "MONTHLY MAXIMUM ALLOWABLE WATER BUDGETS" means the maximum water use allowable for each calendar month for the Landscaped Area as calculated pursuant to Section 7. The method for calculating Monthly Maximum Allowable Water Budgets is set forth in Exhibit "C."
- N. "RECREATIONAL AREA" means a Landscaped Area intended for use for active play or recreation such as sports fields or school yards.
- O. "REFERENCE EVAPOTRANSPIRATION" means a standard measurement of environmental parameters which affect the water use of plants. Reference Evapotranspiration is given as 74.4 inches of water per year, and represents the annual historic average evapotranspiration of a large field of 4"-6" actively growing cool-season grass that is well watered and located in the area of San Bernardino County. Reference Evapotranspiration is used as the basis of determining the Maximum Allowable Water Budget so that regional differences in climate can be accommodated.
- P. "REHABILITATED LANDSCAPING" means any modifications to an existing Landscaped Area that require a permit and result in a Landscaped Area 500 square feet or larger.
- Q. "VALVE" means a device used to control the flow of water in the irrigation system.

## Section 6. Condition for Issuance of Landscape Irrigation Meters

As a condition of the issuance of a landscape irrigation meter, the applicant shall submit plans for the proposed landscaping and irrigation of any project subject to this ordinance to Hi-Desert Water District for review and approval in conformity with the procedure set forth in Section 7. The plans must conform to the provisions of this ordinance. No landscape irrigation meter will be issued until the Hi-Desert Water District approves the Monthly Maximum Allowable Water Budgets for the Landscaped Area. Any plants may be used in the Landscaped Area, providing the Estimated Annual Water Use for the Landscaped Area does not exceed the Monthly Maximum Allowable Water Budgets for the Landscaped Area.

## Section 7. Procedures For Issuance of Landscape Irrigation Meters

- A. When applying to the Hi-Desert Water District for irrigation water service to a project subject to this ordinance, the applicant must provide a completed Landscape Documentation Package for the project as specified in Section 5(H) of this Ordinance. No irrigation water service will be authorized by the Hi-Desert Water District for any project subject to this ordinance until the District reviews and approves the Landscape Documentation Package in accordance with this ordinance.
- B. The applicant must also submit payment to cover all Hi-Desert Water District fees for processing the application.
- C. After receipt of a complete Landscape Documentation Package and payment in full of the District's processing fee, the Hi-Desert Water District will determine the Monthly Maximum Allowable Water Budgets for the Landscaped Area.
- D. If the Hi-Desert Water District determines that the Estimated Annual Water Use for the project does not exceed the Monthly Maximum Allowable Water Budgets for the project, the Hi-Desert Water District will approve the application and execute a Landscape Irrigation Water Agreement for the project substantially in the form attached as Exhibit E to this Ordinance. The executed Landscape Irrigation Water Agreement must be signed by the applicant and returned to Hi-Desert Water District together with payment in full of applicable water service fees in order to be effective. A project that does not exceed its Maximum Allowable Water Budget shall be exempt from the restrictions on irrigation times included in Section 3(D) of Hi-Desert Water District Ordinance No. 68.
- E. If the Hi-Desert Water District determines that the Estimated Annual Water Use for the project exceeds the Monthly Maximum Allowable Water Budgets for the project, then the District will deny the application and provide the applicant with a written confirmation of its determination, including an explanation of the basis for its determination.

- F. Hi-Desert Water District's landscape plan check program is not intended to ensure the adequacy, efficiency, or functional ability of any landscaping or irrigation system. The intent of the landscape plan check is to ensure that all individually-metered landscape irrigation projects applicable to this ordinance are assigned Monthly Maximum Allowable Water Budgets, and to prohibit use of water for landscape irrigation purposes in excess of such assigned Monthly Maximum Allowable Water Budgets.

### Section 8. Prohibitions and Restrictions on Landscape Irrigation Meters

- A. Use of water in excess of the Monthly Maximum Allowable Water Budgets established for an irrigation meter is prohibited and shall be subject to restriction and/or other penalty in accordance with this ordinance.
- B. After the twelve-month Establishment Period, each Landscaped Area must use water within the limits of the Monthly Maximum Allowable Water Budgets assigned to it pursuant to Section 7.
- C. Written notice of water use in excess of the applicable Monthly Maximum Allowable Water Budgets will be sent by the Hi-Desert Water District to the billing address for the subject irrigation meter. Upon notification of such excess water use, the customer must take whatever corrective action is necessary within a reasonable period of time to bring the water usage into conformity with the applicable Monthly Maximum Allowable Water Budgets.
- D. After the Establishment Period, any Landscaped Area that exceeds its Monthly Maximum Allowable Water Budgets for two consecutive months will be subject to one (1) or more of the following penalties, to be imposed by the General Manager of the Hi-Desert Water District with the right of appeal to the Board of Directors of the Hi-Desert Water District:
- (1) Imposition of a penalty water rate on water usage in excess of the applicable Monthly Maximum Allowable Water Budgets.
  - (2) Restriction or discontinuance of the irrigation water service until it is demonstrated to the General Manager's satisfaction that the irrigation system and/or landscaping have been corrected to use water in accordance with the Monthly Maximum Allowable Water Budgets. All costs of service termination and reactivation must be paid by the customer.
  - (3) Commencement of legal proceedings to abate the violation as a waste and unreasonable use of water.
- E. After the Establishment Period, all Landscaped Areas shall be field audited in accordance with current State of California Department of Water Resources

guidelines for water auditing, to determine the "Distribution Uniformity" of the irrigation system, as that term is defined in the guidelines. An irrigation system that fails to meet or exceed a Distribution Uniformity of 0.625 shall be modified and re-audited. Landscaped Areas between 500 and 2,500 square feet shall be exempt from the requirement of a field audit unless and until water use after the Establishment Period exceeds the Monthly Maximum Allowable Water Budgets for two consecutive months.

F. Hi-Desert Water District shall not in any way be held liable or responsible for any claims or losses related to imposition of any penalty under this ordinance.

ADOPTED this 20th day of December, 1995.

## Ordinance No. 68 (Excerpts)

### An Ordinance of the Board of Directors of the Hi-Desert Water District, San Bernardino California, Establishing Prohibitions and Restrictions on the Use of Water and Rescinding Ordinance No. 67

#### **Section 3.**

##### Watering Hours:

- ▶ Starting June 1st through September 30, watering is permitted before 9:00 a.m. and after 5:00 p.m., any three (3) days of the week, so long as the three (3) days are not exceeded.
- ▶ Starting October 1 through May 31, watering is permitted at the discretion of the individual customer according to the weather conditions, any three (3) days of the week, so long as the three (3) days are not exceeded.

##### Prohibitions and Restrictions:

- ▶ No hose washing of sidewalks, walkways, driveways, parking areas, patios, porches or verandas, or any hardscape, unless required by a regulatory agency for health or safety reasons;
- ▶ No water shall be used to clean, fill, operate or maintain levels in decorative fountains, unless such water is part of a recycling system;
- ▶ No person shall knowingly permit water to leak from any facility within his/her premises;
- ▶ Water shall be allowed for construction purposes, including but not limited to debrushing of vacant land, compaction of fills and pads, trench backfill and other construction uses, but shall be used in an efficient manner and not result in run-off. A representative of the owner or builder shall be on site during such water use. The use of "rainbird" type sprinklers is not recommended.
- ▶ Potable water from within the District shall not be used to maintain dirt roads without application to the District.
- ▶ Restaurants shall provide water to customers only upon request.
- ▶ Non-commercial washing of privately owned vehicles, trailers, motor homes, busses or boats will not be permitted except from a bucket and a hose equipped with an automatic shut-off nozzle which may be used for a quick rinse.

- ▶ No use of water for any purpose, except as provided herein, which results in flooding or run-off onto hardscape, driveways, streets, adjacent lands or into gutters shall be permitted.

#### **Section 4. Penalty for Violation**

The penalties for violating the prohibitions and restrictions set forth in Section 3 of this subject Ordinance are as follow:

- A. First Violation — Warning notice.
- B. Second Violation — Written notice of second violation, and a warning of flow restriction device or possible shutoff upon a Third Violation. In addition, upon a commercial or multi-family service receiving the subject Second Violation, the District may install an irrigation meter. Within twenty (20) days of such installation, the commercial or multi-family service must have undertaken to install all the necessary connections to the irrigation meter.
- C. Third Violation — The General Manager may direct the installation of a flow restriction device or shut-off of service for a period of no less than 48 hours.

#### **Section 5. Appeal**

- A. Any person wishing to appeal parts of this Ordinance shall do so in writing to the District.
- B. The Conservation Coordinator shall review and make decisions on the granting of the appeal and the issuance of a variance.
- C. If an applicant for appeal disagrees with the decision, the request may be appealed to the General Manager.
- D. If the General Manager and the applicant are unable to reach an accord, then the request for appeal shall be heard by the Conservation Committee of the Board of Directors who shall then refer it to the Board of Directors at a regularly scheduled meeting with a recommendation for approval or denial.
- E. All appeals shall be reported monthly to the Board of Directors as part of the Manager's Report.

ADOPTED this 17th day of June, 1992.

**LEE PEARL, GENERAL MANAGER**  
**HI-DESERT WATER DISTRICT**  
 55439 29 Palms Hwy  
 Yucca Valley, CA 92286-1210

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## **MUNICIPAL GOVERNMENT EXPERIENCE SUMMARY**

**Twenty-three years of local government experience:**

**Three months General Manager Hi-Desert Water District. Seventeen years with the City of Ontario:** Thirteen years at the executive level. Three years Community Services/Special Projects Director, three and one half years as the Director of Administrative Services/Finance Director, six years as the Chief Budget Officer, and four years as a Senior Administrative Analyst to the Police Chief.

**Six years of county government experience:** Two years as a Research Analyst in the Orange County Administrative Office, three years as an Associate Planner, and one year as a Personnel Intern at the County of Riverside.

## **SAMPLE OF GRANT EXPERIENCE**

State Office of Criminal Justice Planning-multiple grants  
 Office to Traffic Safety-multiple grants  
 Census 2000-City Grant  
 Part 150 Airport Noise Reduction-FAA, Los Angeles World Airports  
 Humanities- Ontario Museum of History and Art  
 Community Development Block Grant  
 South Coast Air Quality Management District-Discretionary Funds

## **EDUCATION**

**California State Polytechnic University Pomona - Bachelor of Science in Management,**  
 1976, **Masters in Business Administration, 1981**

## **WORK EXPERIENCE**

### ***General Manager, Hi-Desert Water District***

Direct and manage a water district serving 8,000 customers. Implements District policies, goals, and objectives established by the Board of Directors. Builds collaborative relationships for solving water quality, conservation, and service issues between business, community and intergovernmental agencies.

### ***Community Services/Special Projects Director, City of Ontario***

Manage special projects in the City Manager's office dealing with full range of city business including general liaison with business and civic organizations; direction of specific city/community initiatives; negotiation and development of public-private partnerships, agreements and contracts; resolution of citizen complaints; handling of sensitive and/or confidential matters. Examples include: obtaining grant funds, initiating new legislation, contract negotiation for public-private operation of the City's golf-course, animal control services, taxi and cable television services. Represent

Mayor and Council and City Manager at community meeting, serve as city liaison to offices of state and federal officials, elementary, secondary and post-school districts, Chamber of Commerce and other business and community groups. Administer Community Services Agency consisting of Library, Recreation and Museum including long-range planning, capital improvement projects and general administration.

***Administrative Services/Finance Director, City of Ontario***

Responsible for all administrative departments including: Finance, Purchasing, Library, Museum, Central Services, Budget, Personnel, Investment/Treasurer, Revenue/Billing and Collection, Business License, Information Systems, GIS, and Telecommunications. Responsible as the city's Finance Director and Treasurer for two regional Joint Powers Agencies. Direct supervisor of six department heads and responsible for the Comprehensive Financial Report and Budget.

***Chief Budget Officer, City of Ontario***

Executive Management position responsible for a \$200 million full service city. Responsible for all aspects of the city's budgeting including production, recommendation to the City Manager, monitoring, and presentation to the City Council. Other successful projects have included various revenue enhancement programs, grant administration, management audits of departments, funding studies for operating and maintenance and capital acquisition programs, citywide user fee studies, fire facility development impact fee program, helicopter law enforcement program and many other studies and programs.

Feb. 1984-  
July 1988

***Senior Administrative Assistant/Police Department, City of Ontario***

Staff assistant to the Police Chief. Responsibilities included: Preparation of the department's budget, review of budget expenditures, acquisition of equipment, public information officer, special projects, police beat plans, false alarm and drunk driving billing programs, grant writing, asset seizure program, and public and council presentations.

Nov. 1982-  
Feb. 1984

***Research Analyst, County of Orange, Santa Ana, California***

In charge of a Fiscal Impact Analysis for the John Wayne Airport expansion. Responsible for major work elements of Orange County's Development Monitoring Program. Staff analyst in the preparation and review of other fiscal documents.

Dec 1978-  
April 1982

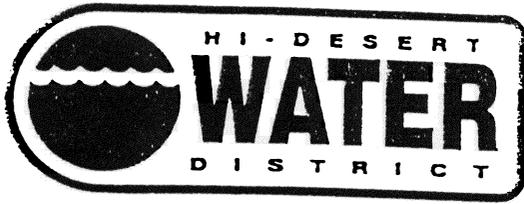
***Urban Planner***

Long range planning programs, specific plans, subdivisions, parcel maps, environmental review, presentations and other project review.

Dec. 1977-  
May 1978

***Personnel Intern, County of Riverside, Riverside, California***

Full time paid internship responsible for assisting in all aspects of personnel.

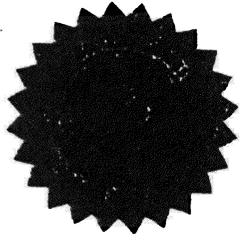


President  
Robert L. Armstrong

Vice President  
Roger R. Duran

Directors  
Donald V. Kral  
Robert K. Stadum  
Stanley J. Zarakov

General Manager - Secretary  
Lee Pearl



Appendix C

February 13, 2001

Brad Kilger, Town Manager  
Town of Yucca Valley  
57090 29 Palms Hwy  
Yucca Valley, CA 92284

Dear Brad:

The Hi-Desert Water District is preparing a Department of Water Resources grant application for a water use efficiency program. This program would offer free to District customers ultra low flush (ULF) 1.6 gallon toilets and low water flow showerheads. The District has requested 3,000 toilets for distribution throughout the area.

The District estimates water savings from this program in excess of 24 million gallons per year. This is about 6-7 days of water use for our **entire** district (winter consumption). Requested funding includes a two year pilot program for graywater and hot water recirculation systems (15 homes per year).

If funded, the District requests the Town to support and promote this water use efficiency program. If you have any questions, please call me at 365.0923.

Sincerely,

Lee Pearl  
General Manager

LP:jg

cc: Board of Directors