

2004 Water Use Efficiency Proposal Solicitation Package

APPENDIX A: Project Information Form

Applying for:

Urban

Agricultural

1. (Section A) **Urban or Agricultural Water Use Efficiency Implementation Project**

(a) implementation of Urban Best Management Practice, # ii (residential plumbing retrofit)

(b) implementation of Agricultural Efficient Water Management Practice, # _____

(c) implementation of other projects to meet California Bay-Delta Program objectives, Targeted Benefit # or Quantifiable Objective #, if applicable

(d) Specify other: _____

2. (Section B) **Urban or Agricultural Research and Development; Feasibility Studies, Pilot, or Demonstration Projects; Training, Education or Public Information; Technical Assistance**

(e) research and development, feasibility studies, pilot, or demonstration projects

(f) training, education or public information programs with statewide application

(g) technical assistance

(h) other

3. Principal applicant
(Organization or affiliation):

LAKE COUNTY SPECIAL DISTRICTS

4. Project Title:

RESIDENTIAL PLUMBING RETROFIT

5. Person authorized to sign and submit proposal and contract:

Name, title

MARK DELLINGER,
ADMINISTRATOR

Mailing address

230A Main Street

Lakeport, CA 95453

Telephone

707/263-0119

Fax.

707/263-3836

E-mail

markd@co.lake.ca.us

6. Contact person (if different): Name, title. SAME
 Mailing address. _____

 Telephone _____
 Fax. _____
 E-mail _____

7. Grant funds requested (dollar amount): \$1,245,000
(from Table C-1, column VI)

8. Applicant funds pledged (dollar amount): \$11,000

9. Total project costs (dollar amount): \$1,256,000
(from Table C-1, column IV, row n)

10. Percent of State share requested (%): 99%
(from Table C-1)

11. Percent of local share as match (%): 1%
(from Table C-1)

12. Is your project locally cost effective?
Locally cost effective means that the benefits to an entity (in dollar terms) of implementing a program exceed the costs of that program within the boundaries of that entity.
 (a) yes
(If yes, provide information that the project in addition to Bay-Delta benefit meets one of the following conditions: broad transferable benefits, overcome implementation barriers, or accelerate implementation.)
 (b) no

11. Is your project required by regulation, law or contract?
 If no, your project is eligible. (a) yes
 (b) no
 If yes, your project may be eligible only if there will be accelerated implementation to fulfill a future requirement and is not currently required.
Provide a description of the regulation, law or contract and an explanation of why the project is not currently required.

JANUARY 2006 –
DECEMBER 2008
FIRST

12. Duration of project (month/year to month/year):

13. State Assembly District where the project is to be conducted:

14. State Senate District where the project is to be conducted:

SECOND

15. Congressional district(s) where the project is to be conducted:

FIRST

16. County where the project is to be conducted:

LAKE

17. Location of project (longitude and latitude)

Lat 39.05.00

Long 122.52.30

18. How many service connections in your service area (urban)?

13,477

19. How many acre-feet of water per year does your agency serve?

3,137

20. Type of applicant (select one):

(a) City

(b) County

(c) City and County

(d) Joint Powers Authority

(e) Public Water District

(f) Tribe

(g) Non Profit Organization

(h) University, College

(i) State Agency

(j) Federal Agency

(k) Other

(i) Investor-Owned Utility

(ii) Incorporated Mutual Water Co.

(iii) Specify _____

21. Is applicant a disadvantaged community? If 'yes' include annual median household income.

(a) yes,

(b) no

(Provide supporting documentation.)

2004 Water Use Efficiency Proposal Solicitation Package
APPENDIX B: Signature Page

By signing below, the official declares the following:

The truthfulness of all representations in the proposal;

The individual signing the form has the legal authority to submit the proposal on behalf of the applicant;

There is no pending litigation that may impact the financial condition of the applicant or its ability to complete the proposed project;

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;

The applicant will comply with all terms and conditions identified in this PSP if selected for funding; and

The applicant has legal authority to enter into a contract with the State.



Signature

MARK DELLINGER, ADMINISTRATOR

Name and title

1/6/05

Date

Statement of Work

Project Description

Lake County Special Districts proposes to implement a voluntary residential plumbing retrofit program in six disadvantaged communities served by County water and/or wastewater systems. The program will offer rebates for installation of water-efficient toilets and showerheads.

Participating communities are listed in Table 1. The six disadvantaged communities are served by eight water systems, two of which are operated by Lake County Special Districts. The other six water systems are operated by public or private entities in areas served by Special Districts wastewater systems. Thus, Special Districts will implement the project through its water or wastewater customers, depending on community location. Special Districts will be the sole contracting entity and decision-maker.

Relevance and Importance

This project will increase flows from Clear Lake to the Bay-Delta and thereby help achieve the CalFed objective of greater water supplies for Bay-Delta restoration. This will be accomplished through residential plumbing retrofits that reduce domestic water demands from Clear Lake.

Clear Lake is California's largest freshwater lake located entirely within the state, and as such, is a major water resource asset that contributes significantly to downstream flows reaching the Bay Delta. Clear Lake is also a major source of water for communities in Lake County, and it is this connection between residential water use efficiency and Bay-Delta water supplies that the project will focus on.

The project is consistent with long-standing policies in local and regional water management plans for water conservation actions that achieve multiple benefits for the environment and economy. The project will exclusively serve six disadvantaged communities that withdraw water from the Lake, and thereby provide much-needed economic relief for households installing efficient plumbing fixtures. At the same time, increased downstream flows to the Bay-Delta will support multiple CalFed goals.

Technical/Scientific Merit

The proposed residential plumbing retrofit program will use procedures and equipment that have been widely proven in similar programs elsewhere. These experiences have shown that significant water use reductions are achievable with devices such as efficient toilets and showerheads. Based on successful initiatives by other California utilities, Lake County will organize its project according to the following tasks:

1. Project Start-Up. The project will commence with a management plan and procedures for staffing, scheduling, budget control, and reporting. The project will be supervised by the Special Districts Administrator.
2. Public Information Campaign. A public information campaign will be launched through local media, civic groups, and mailings to inform households in participating communities of the availability of financial rebates and application procedures.
3. Retrofitting of Dwellings. Participating homeowners will follow project guidelines for acquisition and installation of toilets and showerheads, followed by verification inspections by Special Districts staff, and concluding with payment of rebates for verified installations.

Table 1
PROJECT PARTICIPANTS

Water System	Communities Served	Total Customer Population	Median Household Income (\$) **
North Lakeport CSA 21	North Lakeport	2,370	32,226
Soda Bay CSA 20	Soda Bay	1,322	24,363
Konocti County Water District *	Clearlake	3,875	19,863
Nice Mutual Water Company *	Nice	2,650	24,340
California Water Service Company *	Lucerne	3,067	24,969
California Cities Water Company *	Clearlake	12,650	19,863
Highlands Water Company *	Clearlake	5,907	19,863
Lower Lake County Water District *	Lower Lake	1,850	24,974

* Households in these water service areas will participate as customers of Special Districts' wastewater systems serving the same areas.

** Median household income is based on 2000 census data for participating utility service areas, adjusted by CPI to 2002.

4. Project Evaluation. The project will be evaluated by comparing before and after water consumption data at the household level, as well as before and after Clear Lake withdrawals.
5. Reporting. Project work and results will be documented in an electronic database that supports program administration, project evaluation, and follow-up reporting to DWR.

The project schedule for these tasks is shown in Table 2.

A completed CEQA environmental impact checklist for the project is appended to this application. It is the applicant's conclusion that an Initial Study will produce a negative declaration determination.

Monitoring and Assessment

The project will be evaluated in terms of reduced domestic water consumption and subsequent increases in downstream flows from Clear Lake to the Bay-Delta. This will be accomplished as follows:

- Baseline data will be assembled to document current household water consumption in the participating communities, and current downstream flows from Clear Lake.
- A valid statistical sample of retrofitted dwellings will be audited to calculate water savings achieved from plumbing retrofits.
- Household savings will be cross-checked against volumes of lake water withdrawn by water systems to reconfirm savings, and to document increased supplies for downstream flows to the Bay Delta.

This evaluation work will take into account such external factors as weather and social conditions in the communities. Data will be collected and stored in spreadsheets for purposes of reporting and disseminating results to DWR and others. Special Districts will re-evaluate project costs and benefits as part of its final report, and will submit annual cost/benefit reports to DWR for five years following completion of the project.

Applicant Qualifications

Lake County Special Districts is the County agency responsible for operating 10 water systems and four wastewater systems countywide. The agency has 40 employees and an annual budget of \$12.8 million. Special Districts has successfully managed several dozen federal and state water and wastewater grants since the 1980s. It has administered water conservation and other innovative utility projects for over 20 years, earning a national reputation that includes the following rewards:

- Resource Conservation Award, California Municipal Utilities Association.
- Award of Environmental Achievement, National Council for Environmental Sustainability.
- Award of Merit, California State Association of Counties.
- California Governor's Environmental and Economic Award of Recognition.

The agency currently administers a water use efficiency program that mandates plumbing retrofits when dwellings are sold. The program is supervised by the agency's administrator, whose resume is attached.

All of the communities participating in this project have median household incomes below 80% of the statewide average based on 2000 census data for the customer service areas, adjusted by CPI to 2002.

Table 2
SCHEDULE

	2006				2007				2008			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
1. Project start-up	■											
2. Community outreach		■	■	■	■	■	■	■	■	■		
3. Retrofit installations		■	■	■	■	■	■	■	■	■	■	
4. Project evaluation				■				■				■
5. Project reporting		■	■	■	■	■	■	■	■	■	■	■

Community Outreach

Special Districts maintains an ongoing community involvement and outreach effort in support of its operations. This includes preparation and distribution of printed materials, maintenance of a website, regular attendance at community meetings, issuance of press releases, and similar methods of informing and consulting with the public.

An important component of the project will be community outreach to encourage voluntary participation in residential plumbing retrofits. Special Districts will utilize local media, civic organization meetings, website announcements, and mailings to publicize the availability of retrofit rebates, and to encourage maximum household participation.

Innovation

The project will include assistance to households in recycling toilets that are removed as part of the retrofitting activity.

Benefits and Costs

The project's benefits include increased water flow to the Bay-Delta and reduced water expenses for households in six disadvantaged communities. Project costs include rebates for the installation of plumbing retrofits, and project evaluation and management.

Project Budget

The project budget includes the following primary components:

- \$11,000 of applicant in-kind administrative services to initiate the project.
- \$990,000 in toilet and showerhead rebate funding (rebates of \$100/toilet and \$10/showerhead, maximum two of each per household, installed in 4,500 dwellings over three years).
- \$240,000 for three years of one FTE to administer ongoing household processing, retrofit verification, rebate issuance, project evaluation, and reporting.
- \$10,000 for monitoring and assessment expenses.
- \$5,000 for report preparation expenses.

APPENDIX C PROJECT IMPLEMENTATION COSTS TABLE

Applicant: Lake County Special Districts
Project Title: Residential Plumbing Retrofit

Section A projects must complete Life of investment, column VII and Capital Recovery Factor Column VIII. Do not use 0.

Table C-1: Project Costs (Budget) in Dollars)

	Category (I)	Project Costs \$ (II)	Contingency % (ex. 5 or 10) (III)	Project Cost + Contingency \$ (IV)	Applicant Share \$ (V)	State Share Grant \$ (VI)	Life of investment (years) (VII)	Capital Recovery Factor (VIII)	Annualized Costs \$ (IX)
	Administration ¹								
	Salaries, wages	\$6,000	0	\$6,000	\$6,000	\$0	1	1.0600	\$6,360
	Fringe benefits	\$2,000	0	\$2,000	\$2,000	\$0	1	1.0600	\$2,120
	Supplies	\$3,000	0	\$3,000	\$3,000	\$0	1	1.0600	\$3,180
	Equipment	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Consulting services	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Travel	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
	Other	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(a)	Total Administration Costs	\$11,000		\$11,000	\$11,000	\$0			\$11,660
(b)	Planning/Design/Engineering	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(c)	Equipment Purchases/Rentals/Rebates/Vouchers	\$990,000	0	\$990,000	\$0	\$990,000	10	0.1359	\$134,541
(d)	Materials/Installation/Implementation	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(e)	Implementation Verification	\$240,000	0	\$240,000	\$0	\$240,000	3	0.3741	\$89,784
(f)	Project Legal/License Fees	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(g)	Structures	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(h)	Land Purchase/Easement	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(i)	Environmental Compliance/Mitigation/Enhancement	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(j)	Construction	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(k)	Other (Specify)	\$0	0	\$0	\$0	\$0	0	0.0000	\$0
(l)	Monitoring and Assessment	\$10,000	0	\$10,000	\$0	\$10,000	3	0.3741	\$3,741
(m)	Report Preparation	\$5,000	5	\$5,250	\$0	\$5,250	3	0.3741	\$1,964
(n)	TOTAL	\$1,256,000		\$1,256,250	\$11,000	\$1,245,250			\$241,690
(o)	Cost Share -Percentage				1	99			

1- excludes administration O&M.

Applicant: **Lake County Special Districts**

THE TABLES ARE FORMATTED WITH FORMULAS: **FILL IN THE SHADED AREAS ONLY**

Table C-2: Annual Operations and Maintenance Costs

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

(1) Include annual O & M administration costs here.

Table C-3: Total Annual Project Costs

Annual Project Costs (1) (I)	Annual O&M Costs (2) (II)	Total Annual Project Costs (III) (I + II)
\$241,690	\$0	\$241,690

(1) From Table C-1, row (n) column (IX)

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

Table C- 4: Capital Recovery Table (1)

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

(1) Based on 6% discount rate.

THE TABLES ARE FORMATTED WITH FORMULAS: **FILL IN THE SHADED AREAS ONLY**

Table C-5 Project Annual Physical Benefits (Quantitative and Qualitative Description of Benefits)

Qualitative Description - Required of all applicants ¹				Quantitative Benefits - where data are available ²
Description of physical benefits (in-stream flow and timing, water quantity and water quality) for:	Time pattern and Location of Benefit	Project Life: Duration of Benefits	State Why Project Bay Delta benefit is Direct ³ Indirect ⁴ or Both	Quantified Benefits (in-stream flow and timing, water quantity and water quality)
Bay Delta: Increased water quantity	Year round, downstream of Clear Lake to Bay-Delta	15 years	Clear Lake flows to the Bay-Delta	Approximately 1,000 acre/ft/yr of increased flow to the Bay-Delta
Local: Reduced water consumption and expense	Year round, Clear Lake Basin	15 years	Not applicable.	Approximately \$475,000 in annual savings for households in disadvantaged communities

¹ The qualitative benefits should be provided in a narrative description. Use additional sheet.

² Direct benefits are project outcomes that contribute to a CALFED objective within the Bay-Delta system during the life of the project.

³ Indirect benefits are project outcomes that help to reduce dependency on the Bay-Delta system. Indirect benefits may be realized over time.

⁴ The project benefits that can be quantified (i.e. volume of water saved or mass of constituents reduced) should be provided.

Applicant:

Lake County Special Districts

THE TABLES ARE FORMATTED WITH FORMULAS: **FILL IN THE SHADED AREAS ONLY**

Table C-6 Project Annual Local Monetary Benefits

ANNUAL LOCAL BENEFITS	ANNUAL QUANTITY	UNIT OF MEASUREMENT	ANNUAL MONETARY BENEFITS
(a) Avoided Water Supply Costs (Current or Future Source)	81,000,000	0.00023 ¢/gal	\$18,630
(b) Avoided Energy Costs	81,000,000	0.00043 ¢/gal	\$34,830
(c) Avoided Waste Water Treatment Costs	81,000,000	0.00148 ¢/gal	\$119,880
(d) Avoided Labor Costs	0	N/A	\$0
(e) Other (describe)	0	N/A	\$0
(f) Total [(a) + (b) + (c) + (d) + (e)]			\$173,340

Table C-7 Project Local Monetary Benefits and Project Costs

(a) Total Annual Monetary Benefits [(Table C-6, row (f))]	\$173,340
(b) Total Annual Project Costs (Table C-3, column III)	\$241,690

Table C-8 Applicant's Cost Share and Description

Applicant's cost share %: (from Table C-1, row o, column V)	1
Describe how the cost share (based on relative balance between Bay-Delta and Local Benefits) is derived. (See Section A-7 for description.) Provide Description in a narrative form. The applicant will provide in-kind services for administrative initiation of the project.	

Attachment A
CEQA Environmental Checklist Form

1. Project title: Residential plumbing retrofit

2. Lead agency name and address:
Lake County Special Districts
230A Main Street
Lakeport, CA 95453

3. Contact person and phone number: Mark Dellinger (707) 263-0119

4. Project location: Lake County (6 communities)

5. Project sponsor's name and address:
same as lead agency

6. General plan designation: Residential 7. Zoning: Residential

8. Description of project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)
Retrofitting of existing dwellings with water-efficient toilets and showerheads.

9. Surrounding land uses and setting: Briefly describe the project's surroundings:
Residential

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)
Plumbing permit from the Lake County Community Development Department

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|--|--|--|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture Resources | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Geology /Soils |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology / Water Quality | <input type="checkbox"/> Land Use / Planning |

Mineral Resources

Noise

Population / Housing

Public Services

Recreation

Transportation/Traffic

Utilities / Service Systems

Mandatory Findings of Significance

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

 _____

1/10/05

Date

Mark Dellinger

Printed name

For

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------	---	------------------------------	-----------

I. AESTHETICS -- Would the project:

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Have a substantial adverse effect on a scenic vista? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Substantially degrade the existing visual character or quality of the site and its surroundings? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

II. AGRICULTURE RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

III. AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

- a) Conflict with or obstruct implementation of the applicable air quality plan?
- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?
- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?
- d) Expose sensitive receptors to substantial pollutant concentrations?
- e) Create objectionable odors affecting a substantial number of people?

IV. BIOLOGICAL RESOURCES -- Would the project:

- a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?
- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?
- c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

V. CULTURAL RESOURCES -- Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

d) Disturb any human remains, including those interred outside of formal cemeteries?

VI. GEOLOGY AND SOILS -- Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

ii) Strong seismic ground shaking?

iii) Seismic-related ground failure, including liquefaction?

iv) Landslides?

b) Result in substantial soil erosion or the loss of topsoil?

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

VII. HAZARDS AND HAZARDOUS MATERIALS --

Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

VIII. HYDROLOGY AND WATER QUALITY -- Would the project:

a) Violate any water quality standards or waste discharge requirements?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) Otherwise substantially degrade water quality? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| j) Inundation by seiche, tsunami, or mudflow? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <u>IX. LAND USE AND PLANNING</u> - Would the project: | | | | |
| a) Physically divide an established community? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Conflict with any applicable habitat conservation plan or natural community conservation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

X. MINERAL RESOURCES -- Would the project:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

XI. NOISE --

Would the project result in:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

XII. POPULATION AND HOUSING -- Would the project:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

XIII. PUBLIC SERVICES

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

Fire protection?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

Police protection?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

Schools?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

Parks?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

Other public facilities?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

XIV. RECREATION --

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

XV. TRANSPORTATION/TRAFFIC -- Would the project:

a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

e) Result in inadequate emergency access?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

f) Result in inadequate parking capacity?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?

XVI. UTILITIES AND SERVICE SYSTEMS --

Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

g) Comply with federal, state, and local statutes and regulations related to solid waste?

XVII. MANDATORY FINDINGS OF SIGNIFICANCE --

	Potentially Significant Impact	Less than Significant With Mitigation	Less Than Significant Impact	No Impact
--	--------------------------------------	--	------------------------------------	--------------

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

Attachment B
SPECIAL DISTRICTS ADMINISTRATOR RESUME
Mark Dellinger

Education

B.S.-Geology & Earth Sciences, Northern Arizona University, 1977.

M.S.-Geography/Resource Management, University of Idaho, 1982.

Employment

1980-1982, Research Associate, Geo Heat Center-Oregon Institute of Technology, Klamath Falls, Oregon.

1982-1983, Energy Resource Coordinator, City of West Richland, Washington.

1983-1984, Research Associate, Eliot Allen & Associates, Portland, Oregon.

1984-1992, Geothermal Coordinator/Division Head, Resource Management Division-Community Development Department, County of Lake, Lakeport, California.

1992-2001, Resource Manager, Special Districts Administration, County of Lake, Lakeport, California.

2001-2002, Senior Permit Compliance Specialist, Calpine Corporation-Geysers Operations, Middletown, California.

2002-Present, Special Districts Administrator, Special Districts Administration, County of Lake, Lakeport, California.