

G1037

**TITLE:** COLUSA BASIN WATERSHED PROJECT

**APPLICANT:** COLUSA COUNTY RESOURCE CONSERVATION DISTRICT

**ADDRESS:** 100 SUNRISE BLVD., SUITE B  
COLUSA, CA 95932

**TELEPHONE:** (530)458-2931 EXT. 3

**FAX:** (530)458-2765

**AMOUNT OF**

**FUNDING REQUESTED:** \$397,500 FOR THREE YEARS

**TOPIC:** WATERSHED PLANNING/IMPEMENTATION

**GEOGRAPHIC AREA:** SACRAMENTO TRIBUTARY

**PRIMARY SPECIES:** WINTER-RUN CHINOOK SALMON & SPLITTAIL

**TYPE OF APPLICANT:** LOCAL GOVERNMENT/DISTRICT

**TYPE OF PROJECT:** IMPLEMENTATION

**BY SIGNING BELOW THE COLUSA COUNTY RESOURCE CONSERVATION DISTRICT  
DECLARES THE FOLLOWING:**

- (1) THE TRUTHFULNESS OF ALL REPRESENTATIONS IN THEIR PROPOSAL;
- (2) THE INDIVIDUAL SIGNING THE FORM IS ENTITLED TO SUBMIT THE APPLICATION ON BEHALF OF THE APPLICANT; AND
- (3) THE PERSON SUBMITTING THE APPLICATION HAS READ AND UNDERSTOOD THE CONFLICT OF INTEREST AND CONFIDENTIALITY DISCUSSION IN THE PSP (SECTION II.K) AND WAIVES ANY AND ALL RIGHTS TO PRIVACY AND CONFIDENTIALITY OF THE PROPOSAL ON BEHALF OF THE APPLICANT, TO THE EXTENT AS PROVIDED IN THE SECTION.

Brandon Ash  
BRANDON ASH, PRESIDENT  
COLUSA COUNTY RCD

July 2, 1998  
DATE

COLUSA RESOURCE CONSERVATION DISTRICT  
100 SUNRISE BLVD. SUITE B  
COLUSA CALIFORNIA, 95932  
CALFED BAY-DELTA LOCAL WATERSHED  
STEWARDSHIP PROJECT PROPOSAL

II. Executive Summary

a. Project Title and Applicant Name

Title: Colusa Basin Drain Watershed Project

Applicant: Colusa County Resource Conservation District

b. Project Description and Primary Biological/Ecological Objectives

The Colusa Basin Drain Watershed project will serve as a watershed management project that assists private landowners address flood control issues and non-point source pollution issues associated with the Clean Water Act in four agricultural land uses: dairy operations, grazing, orchards, and irrigated cropland, while at the same time preserving and enhancing wildlife habitat. The project will consist of 12 selected sites which will implement management practices designed to reduce the amount of surface runoff, Diazinon residues, and sediments flowing into the Colusa Basin Drain and Sacramento River. Each cooperating site will have a Resource Management System (RMS) plan developed utilizing an ecosystem based planning approach, and will include a three-year contract with the landowner, who will receive 75% cost-sharing for practices implemented.

c. Approach/Task/Schedule

The Colusa County Resource Conservation District (CRCDD) is the lead agency for the proposed Colusa Basin Drain Watershed Project. CRCDD has an MOU with the USDA and with the Natural Resources Conservation Service (NRCS). Via the MOUs the NRCS will act as staff to assist with implementation, and will provide part-time staff to assist with all phases of the project. The CRCDD will seek other MOUs during the first year with other cooperating agencies and arrange for staff to manage the project. A Steering Committee will be created, and will have the role of overseeing the project and provide public participation. The project is scheduled to begin November 1, 1998 and end October 31, 2001.

Project tasks include:

- Task 1: Project Management & Administration
- Task 2: Public Participation
- Task 3: Select Cooperating Sites
- Task 4: Establish Monitoring Sites
- Task 5: Baseline Resource Data
- Task 6: Develop RMS Plans
- Task 7: Schedule Workshops and Tours
- Task 8: Implement RMS Plans
- Task 9: Conduct Workshops and Tours
- Task 10: Prepare Final Report

d. Justification for Project and Funding by CALFED

The benefits of this project include improved water quality for all beneficial uses, improvement and expansion of available aquatic and terrestrial wildlife habitat. This project is expected to benefit aquatic habitat in general, seasonal wetlands, instream aquatic habitat and shaded riverine habitat. In addition, it will improve surface water infiltration, reducing runoff. Moreover, this project will improve ecological functions in the Bay-Delta to support sustainable populations of diverse and valuable plant and animal species. In addition, priority species expected to benefit from this project include: Winter-run Chinook salmon, Spring-run Chinook salmon, Late-fall run Chinook salmon, Steelhead trout as well as Green sturgeon. Secondary priority species receiving benefits will include striped bass and migratory birds.

e. Budget Costs and Third Party Impacts

a. <u>Budget Costs</u>	<u>Total</u>	<u>CALFED Contribution</u>
A. Personnel Services	\$120,000	\$60,000
B. Operating Expenses	\$6,500	\$6,500
C. Property Acquisitions		
- Equipment	\$4,900	\$4,900
- Portable Assets	\$0	\$0
- Data Processing Equipment	\$0	\$0
- Misc., other	\$1,600	\$1,600
D. Professional and Consulting Services	\$9,500	\$9,500
E. Monitoring	\$15,000	\$15,000
F. Implementation-RMS	\$400,000	\$300,000

f. Applicant Qualifications

The CRCD consists of 7 volunteer directors and 1 paid staff position (a part-time secretary). In addition to the CRCD providing a full-time project manager, NRCS will provide the RCD with a part-time Planner, a part-time Agricultural Engineer and other staff as needed. The RCD secretary will provide administrative support, and an NRCS Planner will work in the field with the landowners to develop Resource Management System plans, collect baseline data, and monitor implementation. Cooperating agencies include: USDA Natural Resources Conservation Service, Colusa Department of Public Works, Colusa Basin Drainage District and Colusa County Board of Supervisors.

g. Monitoring and Data Evaluation

The monitoring program will compare quantity and/or quality of soil and water entering the site, to that leaving it, with the objective of improving water quality via the installation of specific conservation practices scheduled in an RMS level plan. Baseline water quality and resource data will be gathered during the first year for the cooperating sites. The monitoring parameters to be studied are soil erosion, sedimentation, infiltration, runoff, Diazinon, organic solids and dissolved oxygen.

h. Local Support/Coodination with Other Programs/Compatibly with CALFED Objectives

There has been a strong interest by landowners to participate in the CBDW project as cooperating sites that will apply RMS level plans. In 1998, landowners in the CBDW signed up for government assistance, in order to implement over \$500,000 worth of conservation practices on their land. These requests to participate in these project will require over \$400,000 to implement the associated conservation practices. The implementation RMS plans on these sites will help improve the health of the Colusa Basin and the Sacramento River. A Steering Committee will serve to provide support and guidance for the project. The purpose of the steering committee will be to act as a citizen's monitoring group by making decisions and recommendations regarding progress of the project, results of surveys. In addition, it will sponsor public meetings and all educational workshops and tours.

## III. Title Page

### a. Title of Project

Colusa Basin Drain Watershed Project

### b. Name of Applicant

Colusa Resource Conservation District

100 Sunrise Blvd., Suite B

Colusa, California 95932

PROJECT DIRECTOR: Louis Alberti, USDA-Natural Resources Conservation Service

TELEPHONE: 530-458-2931

FAX: 530-458-2765

### c. Type of Organization and Tax Status

a) Government Agency  
Tax Status: Tax-Exempt

### d. Tax Identification Number

94-6000508

### e. Participants/Collaborators in Implementation

#### Cooperating Agencies:

**Agency Name: USDA Natural Resources Conservation Service**  
**Role/Contribution to Project: Provide technical assistance and/or training to project manager and/or planner on developing resource management system plans.**  
**Formal Agreement: MOU entered upon August 2, 1990.**  
**Contact Person: Roney Gutierrez**  
**Phone: 530-458-2931**

**Agency Name: Colusa County Dept. of Public Works**  
**Role/Contribution to Project: Construction project is within project boundaries. To serve on steering committee.**  
**Contact Person: John Joyce; Phone: 530-458-0466**

**Agency Name: Colusa Basin Drainage District**  
**Role/Contribution to Project: Project is within the Colusa Basin Drainage District CRMP.**  
**Contact Person: Gaye Lopez; Phone: 530-795-3038**

**Agency Name: Colusa County Board of Supervisors**  
**Role/Contribution to Project: Have budgeted construction funds to Flood Control Project within project watershed. To serve on steering committee.**  
**Contact Person: Bill Waite; Phone: 530-458-0508**

#### IV. Project Description (maps and figures)

##### a. Project Description and Approach

The Colusa Basin Drain Watershed project will serve as a watershed management project to assist private landowners address non-point source pollution issues associated with the Clean Water Act, particularly for four agricultural land uses: grazing, almond orchards, irrigated cropland and dairies. The project will consist of 12 selected sites which will implement management practices designed to contain runoff from dairies and reduce surface runoff from fields and orchards. The project will result in the reduction of Diazinon residues and the amounts of silt and sediments flowing into the Colusa Basin Drain and Sacramento River. Each cooperating site will have a Resource Management System (RMS) plan developed utilizing an ecosystem based planning approach. The plans will include conservation practices, improved water quality/water conservation management goals, a monitoring and educational component. Six of the 12 cooperating sites will be selected to serve as monitoring sites. The monitoring element will compare baseline data collected at sites during the first year to that data collected during the second and third project years. Each cooperating site plan will call for the establishment of a three-year contract with the landowner, who will receive in return 75% cost-sharing for practices implemented. In order for landowners to receive 75% cost-sharing for implementing management practices, they must be willing to host at least 2 workshop/field tour during the 3-year contract. Six of the 12 cooperating sites will be selected to host a workshop/field tour activity.

Consultants and professionals will be contracted for the purposes of educating landowners as to their role in the Clean Water Act, goals of an RMS plan in addressing water quality objectives of the Clean Water Act, writing RMS plans that incorporate a water quality monitoring component, how to implement the plan, and teach proven conservation practices that address water quality improvement in dairies, rangeland, almond orchards, and irrigated rowcrops. Workshop materials will be provided to participants during these "hands-on" training sessions. A total of six workshops will be conducted. Field tours will be conducted at selected cooperating sites, with landowners as the target audience. Three tours being conducted in each of the 2nd and 3rd project years. The goal of these tours will be to "show-and-tell" landowners how to implement conservation practices, conduct water quality monitoring, and hear first hand from cooperating landowners about their successes/failures in implementing RMS plans. Informational mailings will be sent to all landowners within the watershed in order to keep them informed of project workshops, tours, goals, and progress. In addition, a quarterly newsletter will be distributed to landowners/managers within the CBDW project area in order to provide information on the activities and developments of the project.

A Steering Committee composed of landowners within the watershed that includes a representative from each landuse, agricultural groups (Farm Bureau, Cattlemen Association, irrigation companies), and participating agencies/ groups (Colusa County RCD, Glenn County RCD, Yolo County RCD, NRCS, Colusa County Board of Supervisors, Colusa County Public Works, Extension Service, RWQCB, CBDD) will serve to provide support and guidance for the project. The steering committee will act as a citizen's monitoring group by making decisions and recommendations regarding the progress of the project and results of surveys. In addition, the committee will sponsor public meetings and all educational workshops and tours. One survey per year will be conducted to measure landowner adaptations and attitudes towards meeting the Clean Water Act via the Resource Management System plans being demonstrated, conservation practices installed to address water quality/water conservation, and the conservation measures and water quality/water conservation issues being taught in the workshops.

The CRCDD shall ensure the existence of a Steering Committee that: 1) oversees the progress and technical aspects of the project, 2) acts as a liaison between local landowners and agency representatives, and 3) coordinates educational workshops and field tours. The overall management of the project shall be guided formally through reviews with the Steering Committee. The CRCDD will sponsor public meetings at least once a year in order to discuss project progress and review the plan of operations. A responsiveness summary shall be prepared for each public meeting conducted for the

project. Responsiveness summaries shall be submitted to the CALFED BAY DELTA PROGRAM Contract Manager and shall be made available to the general public upon request.

The Steering Committee will produce a schedule of all workshops and tours that are to be conducted during implementation of the project. A minimum of two workshops will be conducted during each of the three project years, for a total of six workshops. A minimum of two tours will be conducted during the 2nd and 3rd project years, for a total of four tours. Landowners who have signed Resource Management System contracts as cooperating sites must be willing to host at least one workshop/tour. Six of the cooperating sites will be selected to host a workshop/tour during the three year contract.

The project manager will coordinate these workshops and tours. Advanced notice of each event will be mailed to all landowners within the watershed. Appropriate materials will be purchased to produce student educational packets, video/slide shows, and to post signs at the demonstration sites. Workshop/Tour evaluation forms will be provided to all participants for the purpose of monitoring these elements of the educational component of the project.

b. Proposed Scope of Work

TASK 1. PROJECT MANAGEMENT AND ADMINISTRATION

The Colusa County Resource Conservation District (CRCD) is the lead agency for the proposed Colusa Basin Drain Watershed Project. CRCD has an MOU with the USDA and with the Natural Resources Conservation Service (NRCS). Via the MOUs, the NRCS will act as staff to assist with implementation, and will provide part-time staff to assist with all phases of the project. The CRCD will seek other MOUs during the first year with other cooperating agencies and arrange for staff to manage the project. A Steering Committee will be formed to oversee the project and to provide public participation.

The CRCD consists of 7 volunteer directors and 1 paid staff position (a part-time secretary). In addition to the RCD providing a full-time project manager, NRCS will provide the RCD with a part-time Planner, a part-time Agricultural Engineer and other staff as needed. The RCD secretary will provide administrative support, while an NRCS Planner does work in the field with landowners to develop Resource Management System plans, collect baseline data, and monitor implementation. The CRCD shall be responsible for providing technical and administrative services as needed for project completion, including, but not limited to: providing staff resources for monitoring, supervising and reviewing all work performed; coordination of budgeting, scheduling, and subcontract administration. The Steering Committee and Project Manager will develop a Plan of Operations, schedule tasks to be completed, project completion dates and assign project responsibilities for each task.

The project manager will be responsible for evaluating and managing project performance and will attend both CRCD meetings and Steering Committee meetings on a regular basis. During these meetings, the manager will present a written progress report. In addition, the project manager shall prepare and submit written quarterly progress reports to the CALFED BAY-DELTA PROGRAM.

TASK 2: PUBLIC PARTICIPATION

The CRCD shall ensure the existence of a Steering Committee to: 1) oversee the progress and technical aspects of the project, 2) act as a liaison between local landowners and agency representatives, and 3) coordinate educational workshops and field tours. The overall management of the project shall be guided formally through reviews with the Steering Committee. The CRCD will sponsor public meetings at least once a year to discuss project progress and to review the plan of operations. A responsiveness summary shall be prepared for each public meeting conducted for the project. Responsiveness summaries shall be submitted to the CALFED BAY DELTA PROGRAM Contract Manager and shall be made available to the public upon request.

TASK 3. SELECT 6 SELECT COOPERATING SITES WITHIN WATERSHED

The Steering Committee will be responsible for developing the criteria for each of the cooperating sites, which will include rangeland, almond orchards, irrigated cropland. Criteria will include: environmental benefit of practices to be included in Resource Management System plan, availability of access for the purposes of conducting tours, landowner's capability of meeting their portion of cost-share (25% of practices) and ease of monitoring the system. Site criteria will be tabulated on a checklist and a rating system will be developed for ranking locations. Selections will be based on ranking. Mass mailings will be conducted within the watershed, soliciting project cooperators.

TASK 4. ESTABLISH MONITORING SITES

The project manager will develop a monitoring protocol which will include: a description of pollutants being monitored, sampling methods to be conducted for the various landuse types, sampling schedules, field data sheets to be used by staff, location where samples will be sent for analysis, method of storing and transporting samples, breakdown of equipment needed for monitoring, and all associated costs. The project manager and planner will select locations at six cooperating sites for monitoring stations. A minimum of two stations per site will be established (upstream and downstream) to monitor water quality. Locations will be indicated on plan maps for submission into the Resource Management System plans.

TASK 5. COLLECT ANALYZE & DOCUMENT BASELINE DATA

The project planner and/or project manager will collect initial samples at each monitoring site to establish baseline data. The samples will be collected, stored, and transported as outlined in the monitoring protocol. Lab results will be documented for inclusion in the Resource Management System plan monitoring component. All baseline data will be documented for inclusion in the Resource Management System plans. Monitoring data will be sent to a sub-contractor to be analyzed.

TASK 6. DEVELOP RESOURCE MANAGEMENT SYSTEM PLANS

The project planner will meet with each of the landowners and develop Resource Management System plans for each site. A checklist will be included to document the elements required for a complete Resource Management System plan. Once all the elements are present, the plan will be submitted to the Steering Committee for approval. After approval, the landowner, the CRCDC, the Colusa Farm Services Agency County Committee, and the NRCS District Conservationist will review and approve the plan and the schedule of operations.

TASK 7. SCHEDULE WORKSHOPS AND TOURS

The Steering Committee will produce a schedule of all the workshops and tours to be conducted during implementation of the project. A minimum of two workshops will be conducted each of the three project years, for a total of 6 workshops. A minimum of two tours will be conducted during the 2nd and 3rd project year, for a total of four tours. Landowners who have signed Resource Management System contracts for cooperating sites must be willing to host at least one workshop/tour. Six of the cooperating sites will be selected to host a workshop/tour during the 3 year contract.

TASK 8. IMPLEMENT RMS PLANS

The project manager will coordinate the appropriate staff to assist landowners with implementation of scheduled practices in the RMS plans. Practice designs and specifications will be documented and agreed upon prior to construction. After installation, the practices will be inspected. The RMS plans will be reviewed on an annual basis. The monitoring element of the plans will begin after the practices are installed. Monitoring data will be sent to a sub-contractor to be analyzed.

TASK 9 CONDUCT WORKSHOPS AND TOURS

The project manager will coordinate the workshops and tours as scheduled in Task 7. Prior to each event, announcements will be mailed to all landowners within the watershed. Appropriate materials will be purchased to produce student educational packets, video/slide shows, and to post signs at the demonstration sites. Workshop/Tour evaluation forms will be provided to all participants for the purpose of monitoring the educational component of the project.

TASK 10 PREPARE PROJECT FINAL REPORT

The project manager will prepare a draft project report which will present results of the tasks completed. The project manager will evaluate and prepare responses to all comments made by public agencies, special districts and interested parties on the draft report. All significant comments will be incorporated into the final report and submitted to the Steering Committee for review. Upon committee approval, a final report will be sent to the CALFED Contract Manger for review and acceptance as well as other appropriate agencies.

c. Location and/or Geographic Boundaries of the Project

The Colusa Basin Drain Watershed is located primarily within the boundaries of Colusa, Glenn and Yolo Counties. The Colusa Basin (hydrologic unit #520.21) is considered impaired waterbody, which feeds into the Sacramento River. See Attachment 1 for an illustration of the project location.

d. Expected Benefits (s)

The benefits of this project include the improvement of water quality for all beneficial uses, and the improvement and increase of aquatic and terrestrial wildlife habitat. Moreover, this project will improve ecological functions in the Bay-Delta to support sustainable populations of diverse and valuable plant and animal species. This project is expected to benefit seasonal wetland and aquatic habitat, instream aquatic habitat and shaded riverine habitat. In addition, priority species expected to benefit from this project include: Winter-run Chinook salmon, Spring-run Chinook salmon, Late-fall run Chinook salmon, Steelhead trout and Green sturgeon. Secondary priority species receiving benefits will include striped bass and migratory birds.

This project will derive its expected benefits by addressing various stressors affecting priority and secondary species and their habitat. Improvements from riparian restoration and water retention in agricultural lands will reduce problems associated with the alteration of channel form such as channel deepening and lack of floodplains. In addition, project improvements in the reduction of soil erosion and sedimentation of local creeks will significantly decrease the deposition of fine sediments in the Colusa Basin Drain and Sacramento River. This will benefit food supplies for fish and wildlife and increase Shaded Riverine Aquatic habitat and cover and nesting habitat. In addition, the rehabilitation of riparian areas and restoration of adjacent land for buffer zones through the watershed management component of this project will directly address the loss of existing riparian zones in the CBDW project area by seeking to restore them.

Water quality stressors caused by increased contaminants, nutrient input and mobilization of contaminants due to dredging will be addressed by this project. Diazinon and other contaminants and

nutrient loads will be reduced through the watershed management component of the project. In addition, identification of pollutant sources and evaluation of effects of conservation practices will be attained through the monitoring element of the project. The problem of high water temperatures will be addressed through the increase of riparian shade and increased flows over the floodplain resulting from riparian revegetation and an improved flow hydrograph. The project will also benefit land use concerns. Resource management systems for rangeland will reduce negative grazing effects associated with loss of riparian habitat and increased erosion. Furthermore, watershed-wide restoration actions including planning efforts, educational programs, establishing buffer zones and developing technical management practices will be applied to address stressors derived from forestry and agriculture practices.

#### e. Background and Ecological/Biological/Technical Justification

The Colusa Basin Drain Watershed (CBDW) expanding three counties (Glenn, Colusa and Yolo) has a considerable impact on water quality in the Sacramento River and Sacramento River Delta. Surface waters within the CBDW drain into the Sacramento River by way of several west-side tributaries and canals. The Colusa Drain has been identified as an impaired water body. The drain, in turn, conveys water into the Sacramento River, also an impaired water body. The CBDW contains agricultural land uses which have been identified as contributors to NPS pollution (Pesticides in Surface Water from Applications on Orchards and Alfalfa During the Winter and Spring of 1991-92; CA RWQCB, Feb. 1993). Local creeks are flooded out each winter due to concentrated flows in the upper watershed, and runoff from adjacent orchards and fields. The watershed contains agricultural land uses which depend heavily on irrigation water. Surface water runoff resulting from irrigation practices and precipitation is high in most of this area due in part to poor infiltration rates associated with soil compaction caused by agricultural machinery traffic and grazing animals. Cultural practices in orchards designed to reduce the amount of vegetation between rows adversely effect infiltration rates. Orchards as part of their pest control practices often spray Diazinon during the months of December and January in an effort to control pests like the Peach Tree Borer. During high rainfall periods Diazinon residues are carried off by surface waters into drainages. Soil-adsorbed pesticides in sediments as well as those carried in solution are major contributors to the contamination of surface water. The high rate of surface water runoff in this area compounds the problem. This high rate of runoff can be attributed in part to poor management practices currently being applied, practices which include, improper timing of heavy equipment operations in orchards, untimely water applications, lack of a vegetative cover leading to poor water infiltration, improper timing of grazing operations as well as poor distribution of animals in rangeland. All of these practices are known to reduce rates of water infiltration on rangeland and orchards, which leads to increased flows into drainage channels. These increases in flow volume and velocity in channels have caused head cutting and destabilization of grades in channels within the watershed. Indiscriminate gravel mining methods employed by the private and public sectors have caused further stream channel instability.

In 1998, the Colusa Basin Drain Watershed was identified as a Geographical Priority Area for resource concerns in California by the USDA Natural Resources Conservation Service. Through watershed-wide management planning, educational programs, establishment of buffer zones and application of conservation practices, the CBDW project expects to bring about sustained benefits to the local watershed and Sacramento River.

The response to the CBDW project by the community has been very positive. Over the last two years, several landowners in the CBDW have shown interest in signing up to become cooperating sites and receive assistance to implement conservation practices. The total cost for implementing these new requests is estimated to exceed \$400,000. Thus, there is a strong need for financial assistance to meet these requests, which if addressed, will significantly improve the health of the CBDW, the Colusa Basin Drain and the Sacramento River.

#### f. Monitoring and Data Evaluation

A Steering Committee will be formed whose purpose is to act as a citizen's monitoring group by making decisions and recommendations regarding the progress of the project and results of surveys. The committee will also be responsible for sponsoring public meetings and all educational workshops and tours. Landowner surveys will be conducted yearly to monitor landowner opinion on RMS plans being demonstrated and their willingness to adopt practices designed to comply with the Clean Water Act.

The monitoring program will compare quantity and/or quality of soil and water entering the site, to that leaving it, with the objective of improving water quality via the installation of proven conservation practices scheduled in RMS level plans. Baseline water quality and resource data will be gathered during the first year for the cooperating sites (Note: sources of NPS pollutants to Colusa Drain will be first level of data, other resource conditions will be second level). As part of the RMS plans, a monitoring component will be written to outline a monitoring protocol, i.e., frequency, locations, and methodology. The plans will be written during the first year and status reviews will be conducted the 2nd and 3rd years to document practice implementation and monitoring findings. The status reviews and baseline data will be made available to all interested parties on a yearly basis. Contracts will be entered upon with project cooperators to assure commitment and follow-through during the project. The monitoring parameters to be studied are:

Rangelands:	erosion, sedimentation, infiltration, runoff
Dairies	runoff, organic solutes, dissolved oxygen
Orchard:	erosion, sedimentation, infiltration, runoff, Diazinon
Irrigated Row Crop:	erosion, sedimentation, infiltration, runoff

The project expects to continue its current working relationship with local schools which provides an opportunity for conservation education. Students will be invited to assist in monitoring as well being the target audience in presentations.

#### g. Implementability

The Colusa County RCD currently has MOU's with the USDA, and the NRCS Colusa Field Office. The NRCS mission includes watershed and ecosystem based assistance to private landowners. The RMS level plans that are being proposed for each cooperating site meet the goals of watershed based assistance. In addition, the Colusa County RCD will enter into Memorandum of Agreement with all interested parties to insure commitment throughout the duration of the project. MOAs will be sought with Colusa County Public Works, Colusa County Board of Supervisors, all cooperating site landowners/managers, FSA County Committee, Colusa Basin Drainage District, Glenn County RCD, Yolo County RCD and Department of Water Resources.

V. Costs and Schedule to Implement Proposed Project

a. BUDGET COSTS:

Project Phase and Task	Labor Hours	Salary & Benefits	Overhead Labor	Service Contracts	Material & Acquisition	Misc. and other costs	Total Costs
Task 1: Project Management & Administration	198	5034			2,000	3,000	10,034
Task 2: Public Participation	756	19,660				3,500	23,160
Task 3: Select Cooperating Sites	53	1,386					1,386
Task 4: Establish Monitoring Sites	588	15,640					15,640
Task 5: Baseline Resource Data	769	20,000		15,000	1,500		36,500
Task 6: Develop RMS Plans	926	24,470					24,470
Task 7: Schedule Workshops and Tours	68	1,760					1,760
Task 8: Implement RMS Plans				200,000	200,000		400,000
Task 9: Conduct Workshops and Tours	862	22,800	9,500		3,000		35,300
Task 10: Prepare Final Report	357	9,250					9,250
<b>Totals:</b>	<b>4,577</b>	<b>120,000</b>	<b>9,500</b>	<b>215,000</b>	<b>206,500</b>	<b>6,500</b>	<b>557,500</b>
<b>CALFED Contribution:</b>		<b>60,000</b>	<b>9,500</b>	<b>165,000</b>	<b>156,500</b>	<b>6,500</b>	<b>397,500</b>

<u>a. Budget Costs Contribution</u>	<u>Total</u>	<u>CALFED</u>
A. Personnel Services	\$120,000	\$60,000
B. Operating Expenses	\$6,500	\$6,500
C. Property Acquisitions		
- Equipment	\$4,900	\$4,900
- Portable Assets	\$0	\$0
- Data Processing Equipment	\$0	\$0
- Misc., other	\$1,600	\$1,600
D. Professional and Consulting Services	\$9,500	\$9,500
E. Monitoring	\$15,000	\$15,000
F. Implementation-RMS	\$400,000	\$300,000

b. Scheduled milestones

Starting and Ending Dates for the Project:

Start Date: November 1, 1998.  
End Date: October 31, 2001.

Project Phase and Task	Start Date	Completion Date
Task 1: Project Management & Administration	Nov. 1998	Oct. 2001
Task 2: Public Participation	Dec. 1998	Sep. 2001
Task 3: Select Cooperating Sites	Dec. 1998	Jan. 1999
Task 4: Establish Monitoring Sites	Feb. 1999	Nov. 1999
Task 5: Baseline Resource Data	Feb. 1999	Dec. 1999
Task 6: Develop RMS Plan	May. 1999	Nov. 1999
Task 7: Schedule Workshops/Tours	May. 1999	May. 1999
Task 8: Implement RMS Plans	May. 1999	Sep. 2001
Task 9: Conduct Workshops & Tours	Feb. 1999	Sep. 2001
Task 10: Prepare Final Report	Aug. 2001	Oct. 2001

c. Third Party Impacts

None identified to date.

VI. Applicant Qualifications

The Colusa County Resource Conservation District consists of 7 volunteer directors and 1 paid staff position, (an office manager). In addition to the RCD providing a full-time project manager, NRCS will provide the RCD with a part-time Planner, a part-time Agricultural Engineer and other staff as needed. The RCD secretary will provide administrative support, and an NRCS Planner will work in the field with the landowners to develop Resource Management System plans, collect baseline data, and monitor implementation. The CRCD shall be responsible for providing all technical and administrative services as needed for project completion including but not limited to: staff resources for monitoring, supervising, and reviewing all work performed; coordination of budgeting, scheduling, and subcontract administration. The Steering Committee and Project Manager will develop a Plan of Operations each year, scheduling tasks to be completed, projected completion dates and who will be responsible for each task.

The project manager will be responsible for evaluating and managing the project performance. The project manager will attend both the CRCD meetings and the Steering Committee meetings on a regular basis. At the meetings the manager will present a written progress report. The following illustrates the responsibilities of individuals or groups involved with the project:

<u>Project Responsibility:</u>	<u>Individual/Group</u>
1. Act as CRCD representative for technical conduct/administration of the project on behalf of CRCD.	Project Manager
2. Submit quarterly reports to the CRCD and Steering Committee for approval prior to submission.	Project Manager
3. Develop and maintain financial records for project.	CRCD
4. Conduct Steering Committee Meetings to review project progress and allow for public comments/input.	CRCD SSCW Project Steering Committee
5. Seek Memoranda of Understanding (MOU) with local, state and federal agencies as well as special interest groups participating on Steering Committee.	CRCD Directors Steering Committee
6. Produce Watershed Newsletter on quarterly basis	Project Manager
7. Schedule Educational Workshops and tours	SSCW Project Steering Committee
8. Select cooperating sites based on criteria.	SSCW Project Steering Committee & Ad Hoc Group

- |   |  |
|---|--|
| 9. Develop monitoring protocol outlining sampling methods, materials, and schedule. | Project Manager                                  |
| 10. Develop RMS level plans for Engineer each of the new alternate sites.           | Project Planner, Agricultural<br>Project Manager |
| 11. Establish monitoring sites at each demonstration site.                          | Project Planner<br>Project Manager               |
| 12. Implement Practices   | Landowners                                       |
| 13. Certify Completion of Installed Practices                                       | Project Engineer<br>Project Manager              |

Biosketches on Responsible Individuals:

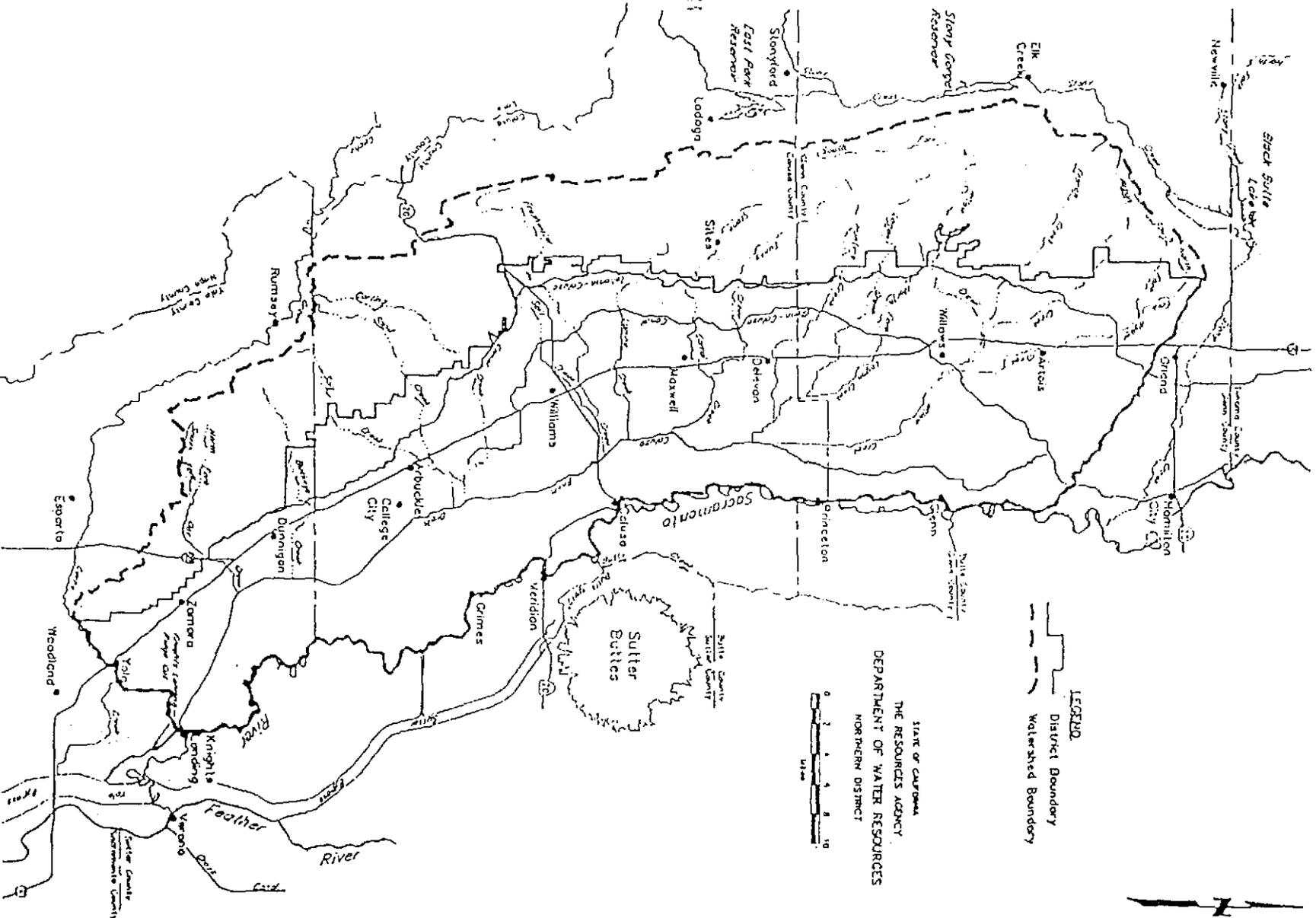
Position: Project Manager  
 Individual: Louis Alberti  
 Education: Cal State Polytechnic University Pomona, BS Soil Science  
 Employer: Natural Resources Conservation Service  
 Experience: Soil Scientist, SE Kern Soil Survey Office, Fort Irwin Soil Survey Office Sep. 1992 - Sep 1997  
 Natural Resources Conservation Service, Soil Conservationist, Colusa Field Office Sep. 1997 - Present

Position: Project Planner  
 Individual: Roney Gutierrez  
 Education: North Carolina State University, MS Soil Science  
 Employer: Natural Resources Conservation Service  
 Experience: District Conservationist in Colusa County since August 1997

Position: Agricultural Engineer  
 Individual: Jack R. Alderson  
 Education: Cal State Chico, BS Civil Engineering  
 Cornell University, MS Biology  
 Employer: Natural Resources Conservation Service  
 Experience: Worked with USDA NRCS 1979 - 1983 and presently.

VII. Compliance with Standard Terms and Conditions

The terms and conditions applicable to this proposal are agreeable to and able to be complied with by the Colusa County Resource Conservation District. (See Attachment 3).



STATE OF CALIFORNIA  
 THE RESOURCES AGENCY  
 DEPARTMENT OF WATER RESOURCES  
 NORTHERN DISTRICT

LEGEND  
 District Boundary  
 Watershed Boundary



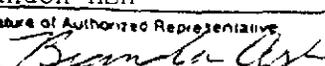
Colusa Basin  
 Colusa Basin Drainage District

I-011830

**Figure 1**  
**Standard Form 424**

**APPLICATION FOR  
FEDERAL ASSISTANCE**

OMB Approval No. 0348-0043

<b>1. TYPE OF SUBMISSION:</b> Application      Preapplication <input type="checkbox"/> Construction <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction <input type="checkbox"/> Non-Construction		<b>2. DATE SUBMITTED</b> July 2, 1998	Applicant Identifier N/A
		<b>3. DATE RECEIVED BY STATE</b> N/A	State Application Identifier N/A
		<b>4. DATE RECEIVED BY FEDERAL AGENCY</b>	Federal Identifier
<b>5. APPLICANT INFORMATION</b>			
<b>Legal Name:</b> Colusa Co. Resource Conservation Distr		<b>Organizational Unit:</b>	
<b>Address (give city, county, state, and zip code):</b> 100 Sunrise Blvd., Suite B Colusa, CA 95932		<b>Name and telephone number of person to be contacted on matters involving this application (give area code):</b> Louis Alberti, NRCS (530)458-2931 ext. 3	
<b>6. EMPLOYER IDENTIFICATION NUMBER (EIN):</b> 9 4 - 6 0 0 0 5 0 8		<b>7. TYPE OF APPLICANT: (enter appropriate letter in box)</b> <input checked="" type="checkbox"/> N	
<b>8. TYPE OF APPLICATION:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision  If Revision, enter appropriate letter(s) in box(es) <input type="checkbox"/> <input type="checkbox"/>  A. Increase Award      B. Decrease Award      C. Increase Duration D. Decrease Duration      Other (specify):		A. State      H. Independent School Dist. B. County      I. State Controlled Institution of Higher Learning C. Municipal      J. Private University D. Township      K. Indian Tribe E. Interstate      L. Individual F. Intermunicipal      M. Profits Organization G. Special District      N. Other (Specify) <u>Colusa RCD</u>	
		<b>9. NAME OF FEDERAL AGENCY:</b>	
<b>10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:</b> TITLE: N/A N/A		<b>11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:</b> Colusa Basin Watershed Project	
<b>12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.):</b> Colusa, Glenn and Yolo Counties			
<b>13. PROPOSED PROJECT</b>		<b>14. CONGRESSIONAL DISTRICTS OF:</b> Vic Fazio      3RD District	
<b>Start Date</b>	<b>Ending Date</b>	<b>a. Applicant</b> <b>b. Project</b> Colusa Co. Resource Conservation District/      Colusa Basin Watershed Project	
<b>15. ESTIMATED FUNDING:</b>		<b>16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b>	
<b>a. Federal</b>	\$ 397,500.00	<b>a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON:</b>  DATE _____	
<b>b. Applicant</b>	\$ .00	<b>b. NO. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372</b> <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
<b>c. State</b>	\$ .00	<b>17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?</b> <input type="checkbox"/> Yes      If "Yes," attach an explanation <input checked="" type="checkbox"/> No	
<b>d. Local</b>	\$ .00		
<b>e. Other</b>	\$ .00		
<b>f. Program Income</b>	\$ .00		
<b>g. TOTAL</b>	\$ .00		
<b>18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.</b>			
<b>a. Type Name of Authorized Representative</b> Brandon Ash		<b>b. Title</b> President/Colusa Co. RCD	<b>c. Telephone Number</b> (530)458-2931
<b>d. Signature of Authorized Representative</b> 		<b>e. Date Signed</b> 4/15/98	

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Standard Form 424 (REV. 4-82)  
Prescribed by OMB Circular A-102

**PART E: Certification Regarding Lobbying  
Certification for Contracts, Grants, Loans, and Cooperative Agreements**

*CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND  
THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT;  
SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.*

*CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL  
LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR  
SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.*

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.



SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

Brandon Ash, President/Colusa Co. RCD

TYPED NAME AND TITLE

DATE July 2, 1998

DI-2010  
June 1998  
(This form replaces DI-1853, DI-1854,  
DI-1955, DI-1956 and DI-1963)

## U.S. Department of the Interior

**Certifications Regarding Debarment, Suspension and  
Other Responsibility Matters, Drug-Free Workplace  
Requirements and Lobbying**

Persons signing this form should refer to the regulations referenced below for complete instructions:

**Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used or use this form for certification and sign. (See Appendix A of Subpart D of 43 CFR Part 12.)**

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)**

**Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)**

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

---

**PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions**

---

*CHECK  IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.*

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;
  - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

---

**PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions**

---

*CHECK  IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.*

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

DI-2010  
June 1995  
(This form replaces DI-1853, DI-1864,  
DI-1856, DI-1866 and DI-1863)

**PART C: Certification Regarding Drug-Free Workplace Requirements**

**CHECK X IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL**

**Alternate I. (Grantees Other Than Individuals)**

**A. The grantee certifies that it will or continue to provide a drug-free workplace by:**

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about--
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's policy of maintaining a drug-free workplace;
  - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
  - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will --
  - (1) Abide by the terms of the statement; and
  - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification numbers(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted --
  - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
  - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

**B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:**

**Place of Performance (Street address, city, county, state, zip code)**

100 Sunrise Blvd., Suite B  
Colusa, CA 95932

Check  if there are workplaces on file that are not identified here.

**PART D: Certification Regarding Drug-Free Workplace Requirements**

**CHECK  IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL**

**Alternate II. (Grantees Who Are Individuals)**

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

DI-2010  
June 1995  
(This form replaces DI-1953, DI-1954,  
DI-1955, DI-1958 and DI-1963)