

C1045

Attachment H

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Clover Creek Floodplain and Habitat Restoration
 Applicant Name: City of Redding
 Mailing Address: 760 Parkview Avenue, Redding, CA 96049-6071
 Telephone: 530-225-4170
 Fax: 530-245-7024

Amount of funding requested: \$ 3,511,920 for 3 years

Indicate the Topic for which you are applying (check only one box). Note that this is an important decision: see page ___ of the Proposal Solicitation Package for more information.

- Fish Passage Assessment
- Floodplain and Habitat Restoration
- Fish Harvest
- Watershed Planning/Implementation
- Fish Screen Evaluations - Alternatives and Biological Priorities
- Fish Passage Improvements
- Gravel Restoration
- Species Life History Studies
- Education

Indicate the geographic area of your proposal (check only one box):

- Sacramento River Mainstem
- Sacramento Tributary: Clover Creek
- Delta
- East Side Delta Tributary: _____
- Suisun Marsh and Bay
- San Joaquin Tributary: _____
- San Joaquin River Mainstem
- Other: _____
- Landscape (entire Bay-Delta watershed)
- North Bay: _____

Indicate the primary species which the proposal addresses (check no more than two boxes):

- San Joaquin and East-side Delta tributaries fall-run chinook salmon
- Winter-run chinook salmon
- Late-fall run chinook salmon
- Delta smelt
- Splittail
- Green sturgeon
- Migratory birds
- Spring-run chinook salmon
- Fall-run chinook salmon
- Longfin smelt
- Steelhead trout
- Striped bass

COVER SHEET (PAGE 2 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Indicate the type of applicant (check only one box):

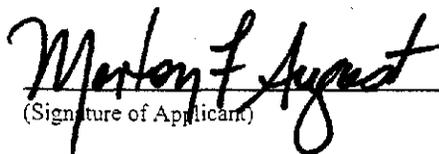
- | | |
|---|---|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit |
| <input checked="" type="checkbox"/> Local government/district | <input type="checkbox"/> Private party |
| <input type="checkbox"/> University | <input type="checkbox"/> Other: _____ |

Indicate the type of project (check only one box):

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> Planning | <input checked="" type="checkbox"/> Implementation |
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Education |
| <input type="checkbox"/> Research | |

By signing below, the applicant 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 (if applicant is an entity or organization); 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.


(Signature of Applicant)



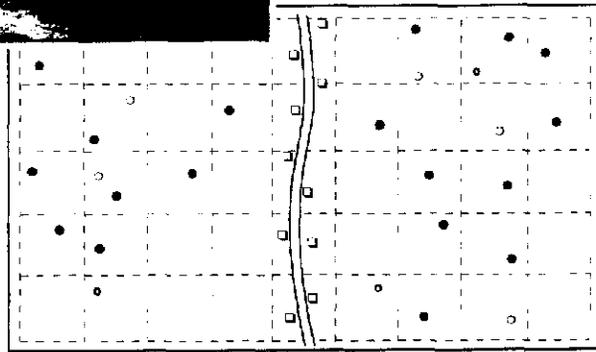
**CALFED
BAY-DELTA
PROGRAM**

Category III
Proposal for the

**Clover Creek Floodplain
and Habitat Restoration**



Submitted by:
City of Redding



Prepared by:

SUBNET and ASSOCIATES
environmental solutions

EXECUTIVE SUMMARY

PROJECT TITLE:

Clover Creek Floodplain and Habitat Restoration

APPLICANT:

City of Redding

PROJECT DESCRIPTION AND PRIMARY BIOLOGICAL/ECOLOGICAL OBJECTIVES

The Clover Creek Floodplain and Habitat Restoration will:

- Provide for the acquisition, restoration and conservation of 50 acres of historic floodplain upstream from an area that has suffered significant losses due to flooding;
- Address the effects of *urbanization*, as a primary stressor;
- Design, construct and restore three priority habitats: *seasonal wetland and aquatic habitat, instream aquatic habitat, and shaded riverine and riparian habitat*;
- Provide for *flood management* through restoration of a *natural floodplain and floodplain processes*; and,
- Reestablish the natural stream meander, *sediment transport and deposition*, and subsequently, the *water quality* of Clover Creek and the Sacramento River.

APPROACH/TASKS/SCHEDULE

The Clover Creek Floodplain and Habitat Restoration will accomplish its goals over a *three year period* by:

- Task No. 1: Project Initiation
- Task No. 2: Preliminary Design/Engineering Studies
- Task No. 3: Land Acquisition
- Task No. 4: Permitting
- Task No. 5: Final Design/Engineering
- Task No. 6: Construction
- Task No. 7: Monitoring
- Task No. 8: Public Involvement
- Task No. 9: Project Administration

JUSTIFICATION FOR PROJECT AND FUNDING PROVIDED BY CALFED

The Clover Creek Floodplain and Habitat Restoration will improve the ecological health within the North Sacramento Valley Ecological Zone while concurrently providing for flood control to alleviate future flooding damage. These goals are compatible with CALFED's objectives to improve and increase aquatic and terrestrial habitats and to improve the ecological functions of the Bay-Delta. Therefore, CALFED represents an appropriate source of funding for the project. Long-term benefits would include:

- Maintenance of ecological processes that create and sustain habitat required for healthy fish, wildlife, and plant populations; and
- Maintenance of natural floodplain and flood processes to alleviate flooding events and the resulting loss of property.

BUDGET COSTS AND THIRD PARTY IMPACTS

The proposed budget is \$3,511,920 for a three year program to design, construct and restore a historic floodplain. The third party impacts resulting from the project are:

- Increase in recreational use along the restored section of Clover Creek;
- Provide the City of Redding and County of Shasta with a model for floodplain restoration and management;
- Provide the CALFED Bay-Delta Program with a model for floodplain restoration, management, and public participation;
- Effect land use and zoning regulations and impact property values; and.
- Increase adjacent property values.

APPLICANT QUALIFICATIONS

The Clover Creek Floodplain and Habitat Restoration will be administered by the City of Redding and receive support from the County of Shasta. The City of Redding is responsible for the management of planning, growth, and preservation of natural resources within the City of Redding. The City of Redding is staffed with experienced managers, planners, and engineers who have demonstrated an ability to protect and restore natural resources. In addition, qualified, experienced staff of the County of Shasta will contribute support.

MONITORING AND DATA EVALUATION

Monitoring and data evaluation will include future hydrological studies, biological assessment and water quality sampling to evaluate the floodplain restoration and habitat enhancement efforts. Applicant will develop a monitoring program with protocol in accordance with the CALFED Bay-Delta Program's effort to develop consistent watershed monitoring throughout the Bay-Delta system. This plan will include success criteria to monitor the performance of each habitat element. Periodic evaluation will occur to ensure that success criteria will be met.

LOCAL SUPPORT/COMPATIBILITY WITH OTHER PROGRAMS/COMPATIBILITY WITH CALFED OBJECTIVES

Although a formal Coordinated Resource Management Group has not been formed for Clover Creek, there are several organized efforts within the region. The City of Redding has developed a compilation of Coordinated Resource Management Programs within the region and envisions establishing further contact to encourage volunteer public participation in implementation and monitoring activities. The project is compatible with CALFED's objectives to *improve and increase aquatic and terrestrial habitats* and to *improve the ecological functions of the Bay-Delta system*.

CLOVER CREEK FLOODPLAIN AND HABITAT RESTORATION

Applicant: City of Redding
Department of Public Works

Responsible Individual and Title -
Morton August, Director of Public Works

Address: City of Redding, Department of Public Works
760 Parkview Avenue, Redding, California 96049-6071

Phone: (530) 225-4170
Fax: (530) 245-7024
E-mail: N/A

Type of Organization and Tax Status: City Government - Exempt

Tax Identification Number: 94-6000401

Technical and Financial Contact Person:

Same as above.

Participants/Collaborators in Implementation:

County of Shasta

IV. PROJECT DESCRIPTION

a. Project Description and Approach

The Clover Creek Floodplain and Habitat Restoration will provide for the acquisition, restoration and conservation of 50 acres of historic floodplain, previously slated for development, through purchase from a willing seller and a permanent conservation easement. Objectives of the project include:

- Restoration of the stream's natural channel;
- Expansion and restoration of the floodplain allowing the creek to function under its normal hydrologic regime;
- Creation/restoration of adjacent priority habitats such as seasonal wetland and aquatic habitat, instream aquatic habitat and shaded riverine and riparian habitat;
- Biological and water quality monitoring and reporting to the CALFED Bay-Delta Program.
- Creation of nature trails and wildlife viewing areas to increase public understanding of floodplain management and associated habitat restoration; and,
- Contribution to the ecological and water quality improvement of the Bay-Delta region.

Urbanization, as a primary stressor, has affected the Clover Creek historically-functioning floodplain, and subsequently, the natural stream meander, sediment transport and deposition, and riparian corridors. During the winters of 1994/95, 1995/96 and 1996/97, residents from downstream of the project study area to the Sacramento River suffered from flooding and the resulting damage. There are 100 separate parcels of land downstream within the 100 year floodplain. Eight of the parcel owners claim to have suffered damages which total in excess of \$800,000. An exact amount in damages for all parcel owners downstream has not been quantified; however, if flooding continues, it is likely additional property damages may be incurred involving significant dollar losses. Figure 1 illustrates the project study area and the 100 year floodplain in relation to the urbanized areas upstream and downstream. Review of aerial photography (Figure 2), in-field reconnaissance, and anecdotal data indicate a historically broader floodplain and a meandering stream channel. The Clover Creek Floodplain and Habitat Restoration will expand the floodplain and restore and enhance priority habitat to allow for flood management and concurrent ecological benefit. The Clover Creek Floodplain and Habitat Restoration will involve public agencies, non-profit organizations, volunteers and natural resource professionals.

The Clover Creek Floodplain and Habitat Restoration will succeed because floodplain restoration and management is immediately necessary to prevent further loss of property within the Clover Creek drainage, and the following local governments, agencies, and local volunteer groups are motivated to participate in the restoration and management efforts:

- City of Redding
- County of Shasta
- Local Coordinated Resource Management Groups

Public involvement in the cooperative effort will be encouraged with yearly workshops and involvement of the public in planned long-term monitoring activities. Monitoring activities conducted in year 3 will contribute valuable data regarding biological function and water quality to the CALFED Bay-Delta Program.

b. Proposed Scope of Work

For the budget and schedule of each task, See Tables I and 2, respectively. Tasks with an asterisk (*) are considered inseparable from other project tasks.

Task No. 1: Project Initiation

- Data Gathering and Review
 - Bidding and Contracting
- ⇒ Deliverables: Bid Packages for Preliminary Design Consultant Selection
Consultant Selection

Task No. 2: Preliminary Design/Engineering Studies

- Biological Assessment
 - Hydrologic Studies
 - Preliminary Engineering Studies
- ⇒ Deliverables: Biological Assessment
Soils Report
Topography
Hydrologic Study
Preliminary/Conceptual Designs

Task No. 3: Land Acquisition

- Negotiations for acquisition
 - Processing of Grant Deeds, Conservation Easements, etc.
- ⇒ Deliverables: Grant Deeds
Conservation Easements

Task No. 4: Permitting*

- Liaison with appropriate federal and state agencies
 - Preparation and processing permit applications
- ⇒ Deliverables: Secured Permits

Task No. 5: Final Engineering*

- Detailed Design
 - Equipment Selection and Specification
 - Cost Estimate
- ⇒ Deliverables: Final Design Drawing
Construction Specification Document
Operational Maintenance Manual

Task No. 6: Construction*

- Processing of service contracts
 - Contractor selection
 - Oversight of construction activities
- ⇒ Deliverables: "As-Built" Drawings

Task No. 7: Monitoring

- Develop Monitoring Plan to include:
 - Hydrological monitoring to determine appropriate floodplain function
 - Biological monitoring for priority species/habitats
 - Water quality sampling
- ⇒ Deliverables: Monitoring Plan
Annual Monitoring Reports (year 3 only)

Task 8: Public Involvement* (Concurrent with Tasks 1 through 7)

- Annual Public Workshops
 - Coordination of volunteer efforts with Local CRMPs
 - Volunteer involvement in monitoring
- ⇒ Deliverables: Workshop handouts and materials
Workshops (3)

Task 9: Project Administration* (Concurrent with Tasks 1 through 8)

- Prepare quarterly reports to CALFED Bay-Delta Program
 - Monitoring of schedule and timelines for implementation
- ⇒ Deliverables: Quarterly Reports
Final Report

c. Location

Clover Creek is a seasonal to semi-perennial creek which originates at the base of the foothills of the Sierra Nevada Mountains and flows primarily north to south meeting with the Sacramento River near Anderson. Clover Creek flows through parts of Shasta County and the City of Redding and is part of the Sacramento-Lower Cow-Lower Clear Watershed. The *Ecosystem Restoration Program Plan* classifies Clover Creek as being within the North Sacramento Valley Ecological Zone.

d. Expected Benefit(s)

Primary benefits resulting from this project would include:

- Reestablishment of Clover Creek to a natural, meandering channel and expansion of the floodplain, thus alleviating future flooding events;
- Restoration of riparian corridors and enhancement of priority habitat
- Improvement of water quality for Clover Creek and the Sacramento River.

The reestablishment of the floodplain, creek and riparian corridors will restore and enhance priority habitat while providing for floodplain management to alleviate repeated flooding and the resulting loss of property to the residents downstream. In addition, areas downstream of the floodplain (including the Sacramento River) will receive the benefits of improved water quality through the reduction of sediment load and pollutants. The project will also address the following primary stressors, priority habitat, priority species, and secondary species as cited in the *Ecosystem Restoration Program Plan*.

Primary Stressors

- Urbanization and the resulting:
 - Threat to priority species
 - Threat to priority habitat
 - Increased risk of flooding
 - Increased contaminants, pollutants, and nutrients and the resulting degradation of water quality
 - Increased stream flows

- Levees, Bridges and Bank Protection and the resulting:
 - Inhibition of overland flow and erosional and depositional processes
 - Elimination of streamflow channel meander
 - Loss and/or reduction of riparian corridor and associated priority habitat

Priority Species

The project will restore natural sediment processes and reduce pollutant loads which will contribute to the overall water quality of the Sacramento River and, subsequently, benefit the following priority species:

- Sacramento late-fall run chinook salmon
- Winter-run chinook salmon
- Spring-run chinook salmon
- Steelhead trout

Priority Habitat

- Shaded riverine aquatic habitat
- Seasonal wetland and aquatic
- Instream aquatic habitat

Secondary Species: Selected Species Addressed in the ERPP

- Sacramento fall-run chinook salmon
- Striped bass

- Valley Elderberry Longhorn Beetle
- Swainson's Hawk
- Tricolored Blackbird
- Northwestern Pond Turtle

Secondary, third party and other CALFED common program benefits would include:

- Increased public education and knowledge of floodplain and habitat processes
- Enjoyment of increased aesthetic values and accessibility to a preserve area with nature trails and wildlife viewing for the residents of the City of Redding and the County of Shasta
- Opportunity to export knowledge and understanding of restoration activities in other watershed areas
- Enhanced knowledge of floodplain functions for Bay-Delta watershed management
- Improved habitat and nesting areas for migratory waterfowl in and around the North Sacramento Valley Ecological Zone

e. Background and Ecological/Biological/Technical Justification

It is estimated that significant damages will be incurred if flooding in the Clover Creek project study area continues to occur. Claimed damages to only 8 of the 100 parcels downstream are already in excess of \$800,000. Restoration of the historic floodplain is necessary to alleviate future flooding events. Concurrent with *Ecosystem Restoration Program Plan* ecological benefits as described in the *Natural Floodplains and Flood Processes* section (Volume I, p. 41). Clover Creek Floodplain and Habitat Restoration will include the following ecological benefits:

- Provide habitat for wildlife such as migratory birds, Swainson's hawk, Tricolored Blackbird (and other species identified above)
- Contribute to species diversity by creating habitats that support different biological communities
- Moderate channel incision and scour by providing area for bank overflow
- Contribute to the aquatic foodweb by collecting and transporting organic matter from the floodplain back to channels and eventually the Bay-Delta estuary

Ecosystem Restoration Program Plan objectives (Volume II, pp. 181-184) for the North Sacramento Valley Ecological Zone which are addressed by this project include:

- Central Valley Stream flows - restoration of basic hydraulic conditions to reactivate and maintain ecological processes that create and sustain habitat required for healthy fish, wildlife, and plant populations
- Natural Sediment Supply - establish sufficient quantities to riverine and estuarine systems to restore or reactivate stream channel meander and provide sediments to rebuild wetlands
- Natural Floodplain and Flood Processes - restore channel and basin configuration to improve floodplain functions
- Upper Watershed Processes - restore ecological processes to maintain water quantity and quality

This project is a new project which begins upon the basis of several hydrological studies previously undertaken to determine the necessary storage capacity to alleviate the recurring loss of property due to flooding. Figure 3 outlines the studies and reports compiled to date regarding the Clover Creek floodplain. Implementation of this project will result in long-term aesthetic, economic, and ecological benefits to the residents of the City of Redding and Shasta County, as well as the Bay-Delta ecosystem.

f. Monitoring and Data Evaluation

This proposal is for the acquisition of floodplain and restoration of associated priority habitat. Monitoring and data evaluation will include future hydrological studies, water quality sampling, and biological assessment to evaluate the habitat restoration and enhancement efforts. Applicant will develop a monitoring program with protocol in accordance with the CALFED Bay-Delta Program's effort to develop consistent watershed monitoring throughout the Bay-Delta system. As part of a biological monitoring program, success criteria will be developed to monitor the performance of each habitat element and periodic evaluation will occur to ensure that success criteria will be met.

Monitoring will include:

- Periodic tree surveys
- Periodic mammal surveys
- Periodic bird surveys
- Vegetation sampling of revegetated areas
- Water quality sampling

Water quality and habitat monitoring is currently being conducted by the nearby Sulphur Creek CRMP. The City of Redding envisions coordination between the two monitoring programs to assess data and export information and knowledge. An annual biological monitoring report will be prepared and provided to the CALFED Bay-Delta Program. The City envisions an adaptive management approach based upon the findings of monitoring reports.

g. Implementability

The City of Redding will oversee and lead the cooperative restoration efforts with the support and assistance of the County of Shasta, and local Coordinated Resource Management Groups. Financial, accounting, administrative support, and contracting are the responsibilities of the City of Redding, Public Works Department. The project will be conducted in compliance with all appropriate environmental laws and regulations and will obtain necessary permits from applicable resource agencies (as noted in Task 4). Although a Coordinated Resource Management Group has not formally been organized for Clover Creek, the City of Redding has developed a compilation of CRMGs in the North Sacramento Valley Ecological Zone and further contacts will be established to encourage public participation in implementation and monitoring activities.

V. Costs and Schedule to Implement Proposed Project

a. Budget Costs

The Clover Creek Floodplain and Habitat Restoration is within the geographic scope of the CALFED Bay-Delta Program. The restoration effort will improve ecological health within the North Sacramento Ecological Valley Ecological Zone which is compatible with CALFED's objectives to improve and increase aquatic and terrestrial habitats and to improve the ecological functions of the Bay-Delta. Therefore, CALFED represents an appropriate source of funding for this project.

Task No. 1: Project Initiation - \$6,060

- Data Gathering
- Bidding and Contracting

Task No. 2: Preliminary Design/Engineering Studies - \$42,020

- Biological Assessment
- Preliminary Engineering Studies

Task No. 3: Land Acquisition - \$ 2,511,820

- Negotiations for acquisition
- Processing of Grant Deeds, Conservation Easements, etc.

Task No. 4: Permitting - \$30,400

- Liaison with appropriate federal and state agencies
- Preparation and processing of permit applications

Task No. 5: Final Engineering - \$107,020

Task No. 6: Construction of floodplain and wetland habitat - \$770,120

- Processing of Service Contracts
- Contractor selection
- Oversight of construction activities

Task No. 7: Monitoring - \$30,520

- Develop Monitoring Plan to include:
 - Hydrological monitoring for to determine appropriate floodplain function
 - Biological monitoring for priority species/habitats
 - Water quality sampling

Task No. 8: Public Involvement (Concurrent with Tasks 1 through 7) - \$13,960

- Annual Public Workshops
- Coordination of volunteer effort with local CRMPs
- Volunteer involvement in monitoring

Task No. 9 Project Administration - (budget included in Tasks 1 through 8)

- Prepare quarterly reports to CALFED Bay-Delta Program
- Monitoring of schedule and timelines for implementation

The City of Redding will conduct any subcontract bid and evaluation activities in accordance with the Redding Municipal Code Chapter 4.22. Sections 4.22.010 through 4.22.120. Sections titles within this chapter include *Uniform construction cost accounting procedures --- Bidding Procedures under the Act, Contracting procedures ---Dollar-amount limitations, Informal bidding procedures, and Formal bidding.*

b. Schedule Milestones

See Table 2 attached.

c. Third Party Impacts

The Clover Creek Floodplain and Habitat Restoration may:

- Effect land use and zoning regulations and impact property values
- Increase recreational use along the restored section of Clover Creek
- Provide the City of Redding and Shasta County with a model for floodplain restoration and management
- Provide the CALFED Bay-Delta Program with a model for floodplain restoration, management and public participation
- Increase adjacent property values

VI. Applicant Qualifications

MORTON AUGUST

Mr. Morton August is the Director of Public Works for the City of Redding and is responsible for a staff of 136 people with an overall operating budget of \$22.6 million a year. For the past 26 years, Mr. August has worked in an upper management capacity within public works and engineering departments for the Cities of Dana Point, Encinitas, Manhattan Beach and Pasadena, as well as Wildan Associates. His duties have involved planning, park development efforts, operations and maintenance, liaison with state and federal agencies, and management of staff, consultants, and contractors. He received his Bachelor of Science degree in Civil Engineering from the University of Southern California in 1972. Mr. August actively led and participated in a team of professional consultants and contractors on an extremely complicated \$3.5 million restoration of bluff failure along the Coast Highway. The project was awarded the 1995 Putnam Award of Excellence by the League of California Cities and was selected from over 70 projects nationwide to receive the American Public Works Association's 1995 Project of the Year Judge Award of Distinction.

ROBERT RUSSELL

Mr. Robert Russell is an Assistant City Engineer for the City of Redding responsible for the management of the Engineering Division consisting of 20 employees. Mr. Russell has 20 years of professional experience in capacities such as Associate Civil Engineer, Public Works Operations Manager, and Assistant City Engineer for the City of Redding and Ott Water Engineers. As Assistant City Engineer, Mr. Russell manages the Engineering Division which is responsible for the design and contract administration of Public Works capital improvement projects. In his capacity as Public Works Operations Manager, Mr. Russell was responsible for the management of maintenance operations of the City's Water Utility, Storm Drainage Utility, Maintenance Electrical and Engineering Group and Streets and Parking Divisions. He has been involved in projects such as hydrologic studies, hydropower feasibility studies, and a City Wide Storm Drain Master Plan.

JIM KING

Mr. Jim King is a Senior Planner for the City of Redding. He is responsible for the preparation of numerous documents pertaining to City-adopted policies which include floodplain management, floodplain ordinances, conservation of natural resources, general plan elements, wetland delineation documents, CEQA and NEPA reports, Scenic River Act documents, and wildlife management documents. Mr. King received his Bachelor of Science degree in City and Regional Planning, with a minor in Statistics and Architecture from California Polytechnic State University, San Luis Obispo in 1973.

VII. Compliance with Standard Terms and Conditions

The City of Redding will comply with all standard terms and conditions. Attached are Form DI-2010 and Form 424A.

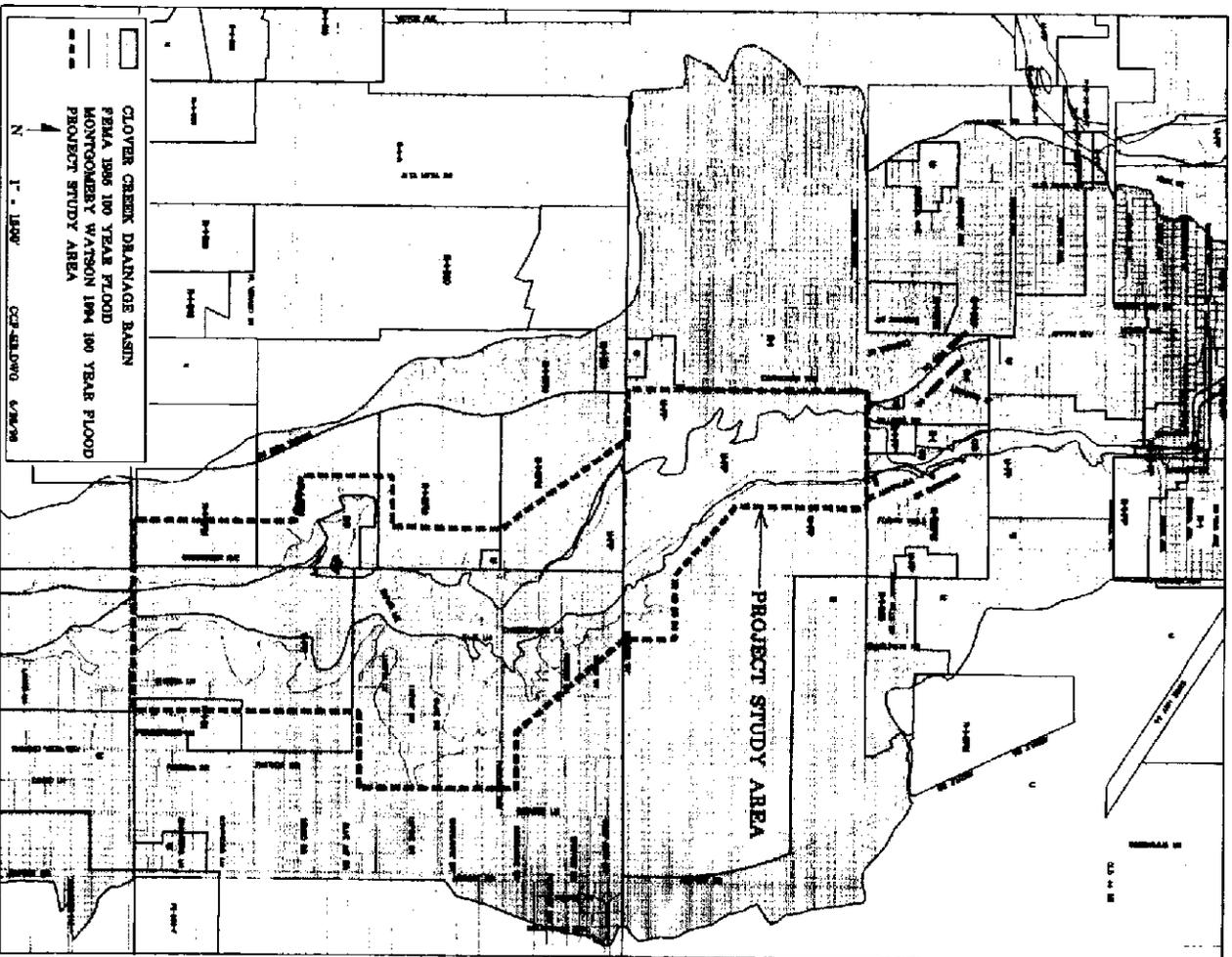


FIGURE 1. Clover Creek Floodplain and Habitat Restoration Study Area

1-009947

1-009947

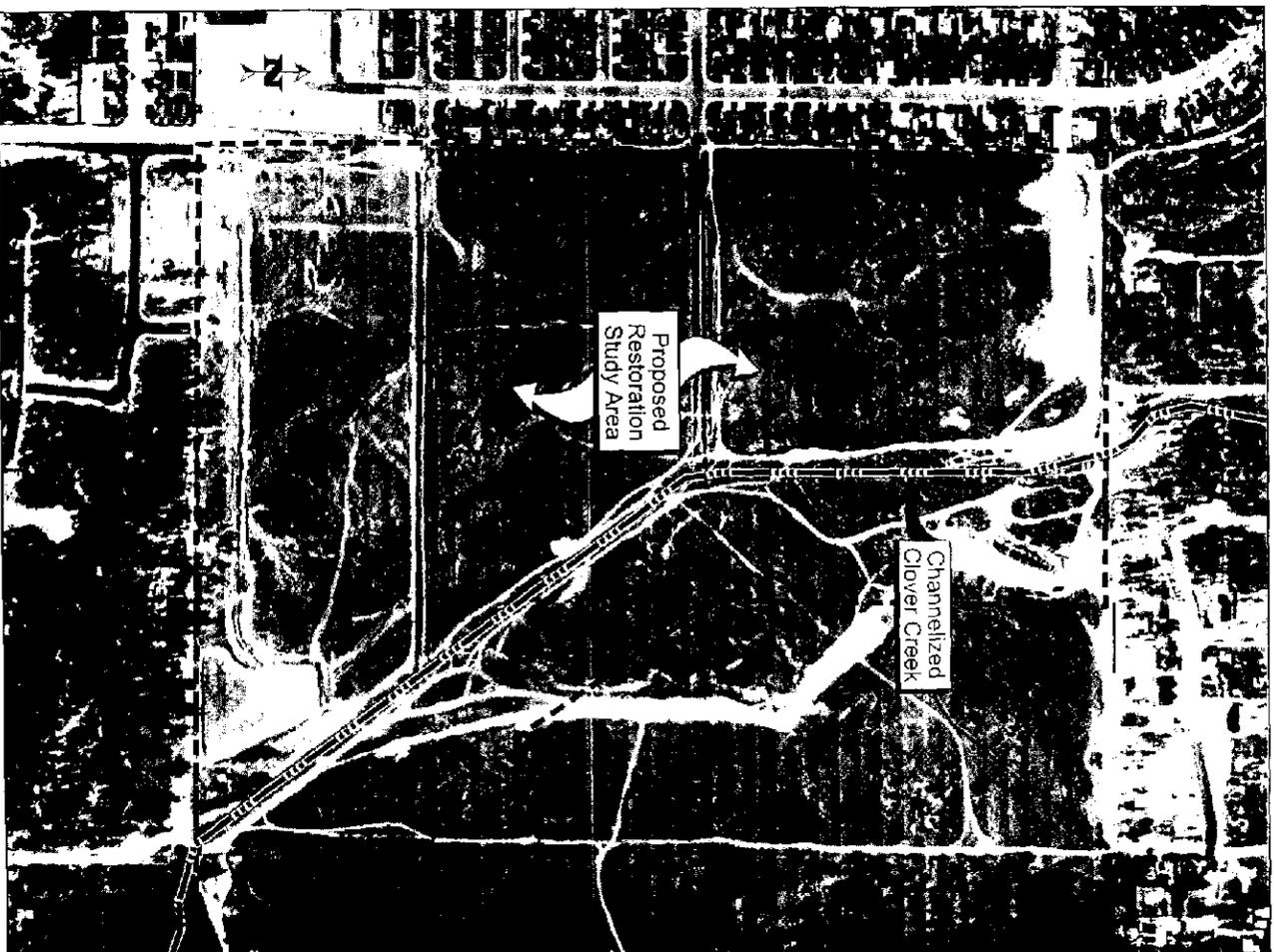


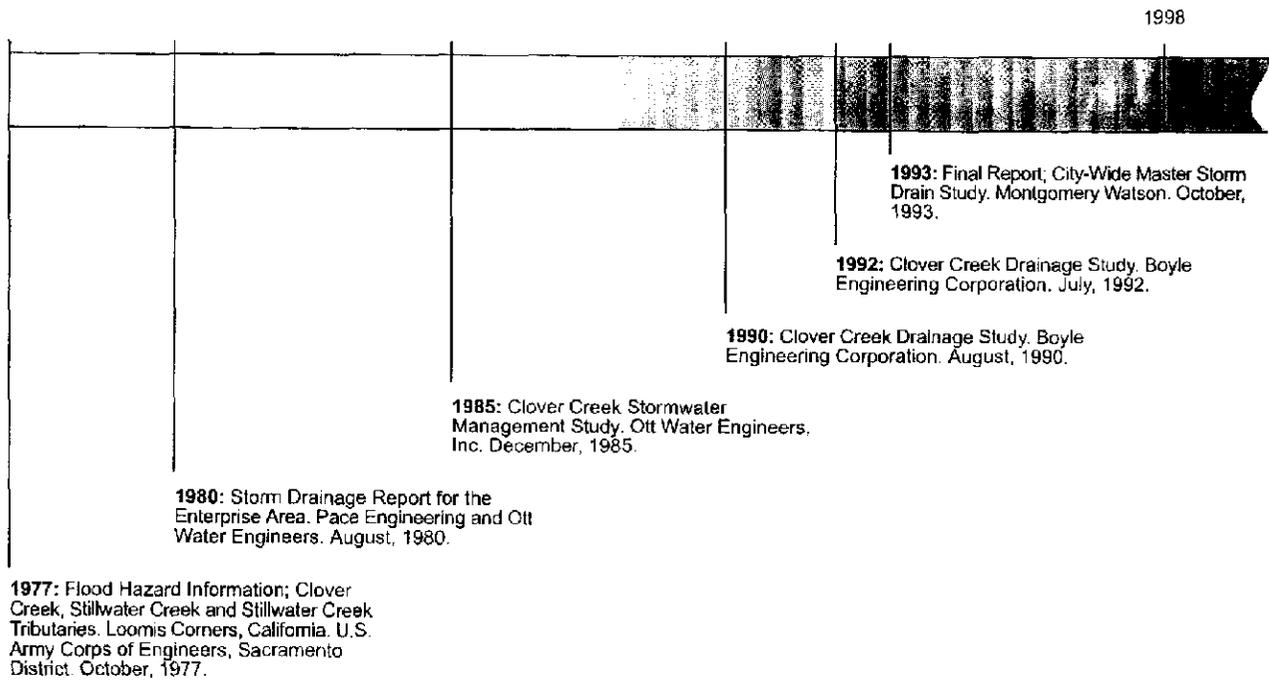
FIGURE 2. Proposed Restoration Study Area

SR0048 Clover Creek Floodplain and Habitat Restoration

1 - 0 0 9 9 4 8

1-009948

FIGURE 3. Clover Creek Floodplain Restoration Studies



I-009949

I-009949

Table 1. Cost Breakdown Table

<u>PROJECT PHASE</u>	<u>DIRECT LABOR</u>	<u>DIRECT SALARY AND BENEFITS</u>	<u>OVERHEAD LABOR (General Admin. And Fee)</u>	<u>SERVICE CONTRACTS</u>	<u>MATERIALS AND ACQUISITION</u>	<u>MISC.</u>	<u>TOTAL</u>
Task No. 1 Project Initiation	80	3,360	2,400	--	--	300	6,060
Task No. 2 Preliminary Design/Engineering	180	6,720	4,800	30,000	--	500	42,020
Task No. 3 Acquisition	160	6,720	4,800	--	2,500,000	300	2,511,820
Task No. 4 Permitting	200	8,400	6,000	15,000	--	1,000	30,400
Task No. 5 Final Engineering	160	6,720	4,800	95,000	--	500	107,020
Task No. 6 Construction	210	8,820	6,300	750,000	4,500	500	770,120
Task No. 7 Monitoring	160	6,720	4,800	18,000	--	1,000	30,520
Task No. 8 Public Involvement	180	7,560	5,400	--	--	1,000	13,960
Task No. 9 Project Administration (included in above)							
Total							3,511,920

Hourly Rate

Salary and Benefits - Estimated average of \$42/hr.

Overhead - 71 % salary and benefits

1-009950

1-009950

Table 2. Schedule Milestones

Activity Name	1998		1999				2000				2001		
	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q
TASK 1 - Initiation		○											
TASK 2 - Preliminary Design/Engineering Studies			○			○							
TASK 3 - Land Acquisition						○							
TASK 4 - Permitting							○						
TASK 5 - Final Engineering							○						
TASK 6 - Construction								○					
TASK 7 - Monitoring											○		○
TASK 8 - Public Involvement		○											○
TASK 9 - Project Administration		○											○
	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q

I - 0 0 9 9 5 1

I-009951

**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-2016
June 1996
(This form replaces DI-1963, DI-1964,
DI-1966, DI-1968 and DI-1969)

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK 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)

760 Parkview Avenue, City of Redding, County of Shasta, 96049-6071

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 1998
(This form replaces DI-1863, DI-1964,
DI-1866, DI-1966 and DI-1967)

**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

Morton F. August, Director of Public Works

TYPED NAME AND TITLE

DATE June 30, 1998

DI-2016
June 1998
This form replaces OMB 25, 2000-08-01
2510-106-0002 and DI-1022

