

**U.S. Fish and Wildlife Service
Red Bluff Fish and Wildlife Office
National Fish Passage Program
Notice of Availability of Federal Assistance
2009 Request for Proposals Draft
May 6, 2009**

Program Overview Information

Federal Agency Name:

Department of the Interior
U.S. Fish and Wildlife Service (USFWS)
Red Bluff Fish and Wildlife Office
10950 Tyler Road
Red Bluff, CA 96080
National Fish Passage Program

**Funding Opportunity Title: Phase I: Lower Antelope Creek
Geomorphology/Fish Passage Assessment**

Funding Opportunity Number: NFPP-09-N01

Announcement Type:

Initial Announcement

Funding Opportunity Number:

Catalog of Federal Domestic Assistance number (CFDA): 00.000

Dates:

Application Deadline: Electronic copy applications must be received by www.Grants.gov by the close of business (COB) on May 29, 2009 (4:30 p.m. Pacific Standard Time). If it is discovered that the proposal cannot be submitted through Grants.gov, the proposal may be submitted to Brenda Olson at Brenda_Olson@fws.gov. Proposals received after the date and time will not be considered for funding.

I. Funding Opportunity Description

A. Legislative Authority and Background

The National Fish Passage Program is authorized under: the *Anadromous Fish Conservation Act* (16 U.S.C. 757a-757g; 79 Stat. 1125); the *Atlantic Striped Bass Conservation Act* (16 U.S.C. 1851; 98 Stat. 3187); the *Endangered Species Act* (16 U.S.C. 1531-1544; 87 Stat. 884); *Fish and Wildlife Act* (16 U.S.C. 742a-742j, not including 742d-l; 70 Stat. 1119); and the *Fish and Wildlife Coordination Act* (16 U.S.C. 661-667e; the Act of March 10, 1934; Ch. 55; 48 Stat. 401).

The goal of the National Fish Passage Program (NFPP) is to restore native fish and other aquatic species to self-sustaining levels by reconnecting habitat that barriers have fragmented, where such reconnection would not result in a net negative ecological effect such as providing increased habitat to aquatic nuisance species. Fish passage projects restore unimpeded flows and fish movement by removing barriers or providing ways for aquatic species to bypass them. The program works on a voluntary basis with Federal, State, local, and tribal agencies, as well as private partners and stakeholders. The Stockton Fish and Wildlife Office administers the regional fish passage program for the USFWS Pacific Southwest Region. The Lower Antelope Creek Geomorphology/Fish Passage Assessment will be managed out of the Red Bluff Fish and Wildlife Office.

B. Purposes and Funding Priorities

The Red Bluff Fish and Wildlife Office, working in partnership with the Stockton Fish and Wildlife Office National Fish Passage Program, works to accomplish:

1. Implementing cooperative and environmentally sound fish passage projects that benefit Federal trust species through activities such as providing biological expertise, field support, and financial support to cooperative projects that result in improved fish passage; assisting in the recovery of endangered and threatened species and in precluding the need to list other species; and measuring and documenting the benefits to Federal trust species.
2. Acting as a catalyst for stewardship of fisheries resources through leadership, coordination, and partnerships; contributing expertise to achieve restoration and recovery goals identified in fisheries recovery and management plans, habitat restoration plans, and ecosystem management plans; developing and maintaining partnerships to implement fish passage projects; and develop and maintain the Fish Passage Decision Support System.
3. Increasing public understanding of problems affecting fish passage and build support for actions that improve fish passage through actions such as: developing demonstration projects to illustrate fish passage techniques in a variety of ecosystems; developing and distributing to the public and conservation community educational materials illustrating the benefits of improved fish passage; and publicizing the benefits of and provide recognition to effective partnerships that result in improved fish passage through news media and the Internet.

C. Project

Funding is available through the U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, National Fish Passage Program to complete an assessment of lower Antelope Creek and associated valley floor forks, to determine the feasibility of concentrating flow into one channel, or create other options, to remediate the fish passage issues for adult and juvenile salmonids. This assessment will lead toward implementation of the recommended remedy.

Anadromous species known to occur in Antelope Creek include spring-run Chinook salmon (*Oncorhynchus tshawytscha*, federally and state listed as Threatened), Central Valley steelhead (*O. mykiss*, federally listed as Threatened), and fall-run Chinook salmon (*O.*

tshawytscha, federal species of concern). Antelope Creek provides approximately 30 miles of anadromous habitat from its confluence with the Sacramento River upstream to two and three miles on North and South Forks of Antelope Creek, respectively.

To successfully over-summer and spawn, spring-run Chinook salmon need to get beyond the canyon mouth to the cooler waters upstream. Steelhead also spawn upstream of the canyon mouth and fall-run Chinook salmon spawn both downstream and just upstream of the canyon mouth. In 2007/2008 140 steelhead were observed moving through the new ladder at the Edwards Ranch/Los Molinos Mutual Water Company Irrigation dam. Spring-run Chinook salmon have ranged in number from 0 to 126 in recent years. None were observed in 2008, most likely due to the dry spring and disconnection of lower Antelope Creek to the Sacramento River.

Currently lower Antelope Creek is divided into three or four channels. This creates fish passage problems, especially in the fall and dry springs, as a result of one or multiple channels not being fully connected between the Sacramento River and the canyon. Migration delay or stranding of salmonids occurs.

D. Scope of Work

The goal of the project is to determine where and what adult and juvenile salmonid barriers occur in lower Antelope Creek (Figure 1, end of document), and how water spatially and temporally flows through the system in order to create a range of feasible remedies for fish passage. The project will include collection and synthesis of needed data to complete the assessment and determining feasible remedies to answer the questions posed below.

A comprehensive synthesis of collected and existing data would be conducted to create a picture of the geomorphology of lower Antelope Creek, incorporating the most current geomorphic analysis methods. The interpretation would call on cross-disciplinary expertise and will target specific questions of practical interest to local stakeholders such as:

- 1) Are the different channels a natural phenomenon or an artifact of land and/or flood management?
- 2) How stable are these channels?
- 3) How does water flow spatially and temporally through the lower Antelope Creek channel system?
- 4) What effect, if any, does irrigation return water have on water flowing through the system? What effect, if any, does irrigation return water have on the quality of water (such as temperature) in the system?
- 5) Are there any water rights downstream of the Edwards Ranch/Los Molinos Mutual Water Company diversion dam, and if so, what kind (riparian, pre-1914, etc)
- 6) How do flood flows (5 to 50 year events) move through the system?

7) Where are potential juvenile and adult passage issues located? What are they?

8) Given the above, can flow be concentrated into one channel during passage periods without affecting water rights, flooding, or other land management issues?

The main driving interest is to learn how the lower Antelope Creek system works, where and what are the fish passage issues, what needs to be taken into consideration in addressing these issues, and what the feasible remedies are.

General Methods:

Assess channel geomorphology and fish passage in lower Antelope Creek, including spatial and temporal characteristics, and develop feasible recommendations on how to address the passage issues.

A comprehensive synthesis of collected and existing data would be conducted, incorporating the most current geomorphic analysis methods.

Access to the project area and permission for inventory/verification must be obtained in writing, although this is not necessarily required prior to submitting a proposal. The majority of the area in the project area is privately owned by a large number of private landowners. A portion of lower Antelope Creek is within the Red Bluff City-owned Cone Grove Park.

If your estimate is greater than the available funding amount, a proposal that is broken into phases with a detailed description of each phase and detailed budget for each phase is acceptable.

II. Award Information

As previously stated, the Recipient chosen through this competitive award process must be in a unique position to garner the support and cooperation of the landowners whose property will be used to access the stream where needed, and other “partners”. Successful awards will be made through a grant. The National Fish Passage Program anticipates approximately \$100,000 may be available for funding this project in Fiscal Year 2009 (fiscal year 2009 began October 1, 2008). A grant may be entered into between the successful applicant and the U.S. Fish and Wildlife Service, Red Bluff, California (RBFWO).

Anticipated project start date could be initiated as early as possible (October 1, 2009), given the proposed timeline to prepare for obtaining landowner permission, and field data collection at the right time of year. Expected completion date for this project is within two years upon signing the grant agreement.

III. Eligibility Information

A. Eligible Applicants

Eligible applicants are limited to those institutions, organizations or individuals with a background in watershed management, water rights, and geomorphologic/fish passage analysis tools and methodologies, and the ability to coordinate projects on private land. Applications from federal agencies or employees of federal agencies cannot be considered.

B. Cost Sharing or Matching

There is no cost-sharing or matching requirement for this award.

IV. Application and Submission Information

A. *This Announcement Contains All the Information Required to Submit an Application*

1. Electronic Applications Materials

The required Standard Form (SF) 424 form set may be accessed at <http://www.grants.gov> or by contacting Brenda Olson at Brenda_Olson@fws.gov for any other of the required forms as listed in 2. Supplemental Requirements, as listed below.

Grants.gov now supports the latest version of Adobe Reader (8.1.1), which is available for free download from the Adobe Website:

<http://www.adobe.com/products/acrobat/readstep2.html>. Grants.gov continues to support Adobe Reader version 7.0.9. **Only these two versions should be used when submitting grant applications. Other Adobe Reader versions are not supported.**

2. Hard Copy Application Materials

If you do not have access to the web page or have trouble downloading material, and you would like a hard copy you may mail the request to Brenda Olson at RBFWO, 10950 Tyler Road, Red Bluff, CA 96080 or call (530) 527-3043 x227. When calling the RBFWO, please indicate that you are requesting the RFP and associated application forms for RFP No. **NFPP-09-N01, Lower Antelope Creek Geomorphology/Fish Passage Assessment.**

Materials may also be requested via Internet by sending an e-mail to Brenda_Olson@fws.gov. For all technical questions, call Ms. Olson at the number above or email.

B. Content and Form of Application Submission

1. Application Requirements

This announcement contains all the information needed to submit a proposal. The project proposal is a narrative description and the budgetary information of the project. Only information that is pertinent to the project should be included. The project proposal should

also indicate whether partial funding of the project is practicable, and, if so, what specific portion(s) of the project could be implemented with what level of funding.

A project proposal that is part of a longer term initiative will be considered, however, the proposed project's objectives, benefits, and tasks must stand on their own, as there are no assurances that additional funding would be awarded in subsequent years for associated or complementary projects. An incomplete proposal will not be considered for funding.

Applications must be no smaller than 12 point font, preferably in Arial type, with 1-inch margins, double-spaced, no longer than 25 pages and submitted in single-sided, electronic or hard copy.

Complete applications must include:

- Applicant name, mailing address, phone and fax number, and email address
- Budgetary information (including necessary Federal Forms, i.e. SF-424 Application for Assistance)
- Background and need for proposed work
- Justification for proposed work
- Approach including study design, hypotheses, goals, methods, equipment and facilities, data collection, any statistical analysis and quality assurance procedures, tasks
- Feasibility of the described approach, any contingencies or requirements (e.g., dependence on outcome of other projects, environmental compliance or permitting)
- Performance measures related to project goals and objectives
- Data handling and storage
- Expected products and outcomes
- Deliverables for each task
- Work schedule, including estimated start and completion dates of each task
- Applicant qualifications and experience

2. Supplemental Requirements

The following table provides a summary of the supplemental forms and requirements that must be included in the application. The Dun & Bradstreet (DUNS number), Central Contractor Registration (CCR), and electronic funds transfer actions are a requirement. Potential applicants must complete these requirements before the award can be made.

What's required	Available at:	When to submit
Application for Federal Assistance, Standard Form SF424 Cover sheet, 424 A & B for Non-Construction; C & D for Construction awards	http://www.whitehouse.gov/omb/grants/grants_forms.html http://www.gsa.gov/forms http://www.fedforms.gov	By May 29, 2009

Dun & Bradstreet Number (DUNS)	www.dnb.com www.dnb.com/US/customer_service/index.html 1-800-234-3867. http://www.dnb.com/us/	Will need <u>before</u> registering with CCR
Registration in the Central Contractor's Registration (CCR)	http://www.CCR.GOV	In time to allow for processing if not already in the system.
Electronic funds transfer Form - ACH 3881	Form is available at the Stockton office of the U.S. Fish and Wildlife Service 209/946-6400 x340 Note: must be completed for funds transfer to occur. If your organization has a history of having received government funds/payments, you do not need to complete this form again.	By May 29, 2009
Registration Grants.gov <i>*Before applying for a grant opportunity on Grants.gov, an applicant must complete the registration process</i>	http://www.Grants.gov or support@Grants.gov , or you may call the Contact Center at: 1.800.518.4726 Registration is a 3-step process: 1. Register your organization, then; 2. Register yourself as an Authorized Organization Representative (AOR) then; 3. Become authorized by your organization to submit applications Please note: It may take up to two (2) weeks to complete the registration process due to unexpected delays. It is highly recommended that you begin the registration process as soon as possible SEE THE GRANTS.GOV WEBSITE FOR COMPLETE DETAILS	In time to allow for processing if not already in the system.

3. Data Universal Numbering System Number (DUNS)

On June 27, 2003, The Office of Management and Budget (OMB) published a Federal Register notice (68 FR 38402) that announced final policy issuance on the use of a universal identifier by grant applicants. The policy requires applicants applying for Federal grants or cooperative agreements on or after October 1, 2003 to acquire a Data Universal Number System (DUNS) number. It is the responsibility of the organization seeking Federal funds to obtain a DUNS, as necessary. Grant and cooperative agreement applicants need to ensure they have a DUNS number. Organizations can receive a DUNS number at no cost by calling the dedicated toll-free DUNS number request line at 1-877-753-1444 or on the web at <http://smallbusiness.dnb.com/manage>

C. Submission Dates and Times

Electronic applications must be received by Grants.gov by the close of business on May 29, 2009 (4:30 p.m. Pacific Standard Time). If the proposal cannot be submitted via Grants.gov, it may be submitted to Brenda_Olson@fws.gov. If the electronic application cannot be submitted, a hard copy must be received by the RBFOW, National Fish Passage Program (address as above in section IV A. 2.), attention Brenda Olson, by May 29, 2009 (4:30 pm

Pacific Standard Time). Hard copy applications should be printed on one side only and should not be bound in any manner. Proposals received after the date and time will not be considered for funding.

D. Intergovernmental Review

This program is not covered by Executive Order 12372. Review process is not required.

E. Funding Restrictions:

Awards will not allow reimbursement of pre-award costs. ***Funding is contingent upon the RBFWO's receipt of an adequate National Fish Passage Program implementation project budget for FY 2009.***

V. Application Review and Selection Information

A. Criteria

Applications are sought that show the applicants expertise and ability in geomorphologic analyses and developing fish passage assessments and recommendations. In addition ability to work with private landowners and partners, such as Resource Conservation Districts, will also be rated.

Proposals will be reviewed by a team of Federal staff based on the following criteria:

- Addresses high priority need as described in I-B of this RFP "Purposes and Funding Priorities": Collect appropriate data to facilitate evaluation of restoration actions; and measures which protect and restore natural channel and riparian habitat values through restoration actions.
- Possess experience and qualifications in completing fish passage and geomorphological assessments,
- Approach is valid and technically sound,
- Primary Investigators and/or sub-recipients record of performance and expertise,
- Budget is reasonable and provides good value for funds requested, and
- Past performance on projects; working knowledge of geomorphic and fish passage assessments, water rights, and working with private landowners/partners.

B. Review and Selection

The selection recommendations of the Federal staff will be provided to the RBFWO Project Leader, who is the Selection Official. The Selection Official will make the final award decision. All applicants will be notified of the results of the selection process by Brenda Olson.

An internal and external review will be conducted for appropriate proposals. An independent technical review will also be conducted on selected proposals.

C. Applicant's and the USFWS responsibilities

1. Applicant's Responsibilities and Deliverables

The successful applicant will submit requests for reimbursement using Standard Form 270, Request for Reimbursement, no more frequently than monthly. A breakdown of funds spent, by task, must accompany each invoice. Requests for reimbursement will be made on the basis of submission by recipient of acceptable documentation and deliverables as defined by the Service. Ten percent of the total amount of the agreement may be withheld until all requirements of the agreement are accomplished. If 10% is withheld, a final invoice may be submitted for the 10% withheld once all the requirements are approved.

Successful applicants shall ensure that the project complies with all applicable Federal, State and local laws and regulations. A successful applicant is ultimately responsible for obtaining all applicable Federal, State and local permits for work to be performed under the award. In addition:

- a) Selected applicant (Cooperator) will provide a proposal and cost breakdown (per detailed instructions in Section VIII).
- b) Responsibilities will include data collection, data transfer, maintenance and analysis, conducting data tabulation and analysis, interpretation, and reporting.
- c) Cooperator will supply all major field and office supplies (computer, office, and sampling gear) to conduct the assessment.
- d) Cooperator will complete and provide written permission for access onto private land.
- e) Cooperator will provide the following deliverables:
 - 1) quarterly status updates in electronic PDF format that track contract progress and expenditures by task,
 - 2) a final report in hardcopy, Rich Text Format and PDF Format. The final report will include a) a discussion on the methods and results of the geomorphic/fish passage analysis; b) answers to questions posed in Section I. D.; c) as applicable, results of meetings with stakeholders and landowners involved with the project; d) final report will include the raw data submitted in an appendix; and e) a draft report will be provided to USFWS within 60 days of the completion of data collection and a final report provided 30 days after receiving final comments from the USFWS. *(See VI (C) for more information on reporting requirements).*

2. USFWS Responsibilities

USFWS will provide a science-based technical review of selected proposal, may provide technical information, and may be available for assisting with products such as peer-reviewed publications.

VI. Award Administration Information

A. Award Notice

The successful applicant will be notified after selection and confirmation of available funding by September 30, 2009. An applicant should not initiate a project in expectation of USFWS funding, nor should they purchase materials or begin work until such time as they receive the final award document signed by an authorized USFWS official.

B. Administrative and National Policy Requirements:

Federal awards are subject to Federal financial administrative requirements. Please see the following for a particular application.

<u>Type of Recipient</u>	<u>Applicable Guidance</u>
Institutions of Higher Education	2 CFR Part 215 Administrative Requirements 2 CFR Part 220 Cost Principles for Higher Education 43 CFR Part 12, Subpart D – Government-wide Debarment and Suspension (Nonprocurement) And Government-wide Requirements for a Drug Free Workplace 43 CFR Part 12, Subpart E – Buy American Requirements for Assistance Programs 43 CFR Part 18 – New Restrictions on Lobbying 48 CFR Part 31.2 – Contracts with Commercial Organizations (if work will be subcontracted out) 48 CFR Part 52.215.2 – Audit and Records
Non-Profit Organizations	2 CFR Part 215 Administrative Requirements 2 CFR Part 230 Cost Principles for Non-Profits OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations 43 CFR Part 12, Subpart D – Government-wide Debarment and Suspension (Nonprocurement) And Government-wide Requirements for a Drug Free Workplace 43 CFR Part 12, Subpart E – Buy American Requirements for Assistance Programs 43 CFR Part 18 – New Restrictions on Lobbying 48 CFR Part 31.2 – Contracts with Commercial Organizations (if work will be subcontracted out) 48 CFR Part 52.215.2 – Audit and Records Negotiation

For profit, individuals and others excluded from coverage with OMB Circular A-122	Federal Acquisition Regulations, full text of appropriate clause may be found at http://www.arnet.gov/far 43 CFR Part 18 – New Restrictions on Lobbying 48 CFR Part 31.2 – Contracts with Commercial Organizations 43 CFR Part 12, Subpart E – Buy American Requirements for Assistance Programs
Governments – State, Local, and Federally Recognized Indian tribal governments	OMB Circular A-102 2 CFR Part 225, Cost Principles for State, Local and Indian Tribal Governments OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations 43 CFR Part 12, Subpart E – Buy American Requirements for Assistance Programs 43 CFR Part 18 – New Restrictions on Lobbying 43 CFR Part 12, Subpart D – Government-wide Debarment and Suspension (Nonprocurement) And Government-wide Requirements for a Drug Free Workplace 48 CFR Part 52.215.2 – Audit and Records Negotiation

C. Reporting Requirements

1. Progress Reports

The successful applicant shall submit a written progress report to the project contact listed in VII on a quarterly basis in Adobe PDF or Microsoft Word format presenting the activities that occurred and provide a description of the project accomplishments during each quarter of the calendar year beginning with the quarter immediately succeeding the project start date. The reports shall be submitted within 30 days following the end of each quarter.

2. Final reports

Draft final reports are due no later than 60 days after completion of the project. Final reports will be due 30 days after receipt of Service comments on the draft report. The successful applicant shall submit, within 90 calendar days of completion of the project, a final invoice. The successful applicant shall account for any real and personal property acquired with Federal funds or received from the Federal Government according to requirements of regulations referenced in the award. The final report will be provided in hardcopy and electronic copy, using Adobe PDF or Microsoft Word format, and sent to: (Red Bluff Fish and Wildlife Office, Brenda Olson, mailing and e-mail address. See Section VII.).

3. Invoice Reports

Invoices will include a detailed narrative explaining costs and documenting the activities conducted for the hours invoiced.

VII. Agency Contact(s)

For technical questions associated with this project contact the Ms. Brenda Olson; 10950 Tyler Road, Red Bluff, CA 96080; telephone 530-527-3043 x227; fax: (530) 529-0292; email: brenda_olson@fws.gov; for questions of an administrative content such as forms completion and for sending hard copies such as the signature page contact Brenda Olson, at telephone 530-527-3043 x227; fax: (530) 529-0292; email Brenda_Olson@fws.gov.

VIII. Other Information

Please note that the Federal Government is not obliged to make any awards as a result of this announcement, and only official Service grant officers can bind the Government to the expenditure of funds. If you are selected as a Federal grant recipient, the funds you receive may be subject to Federal and other taxes.

A. Proposal preparation instructions and format:

In addition to the required forms identified in Section IV, a narrative proposal is also required. The following is the format of the proposal, as well as instructions on how to complete the proposal.

1. Project information page

This proposal (title of proposal) is for the fiscal year 2008: 1) name; 2) proposal title; 3) project duration; 4) lead organization name; 5) enter the name of the agency or institution to whom funds would be awarded; 6) organization contact (please provide information for the primary person responsible for oversight of the project's operation, management, and reporting requirements at the lead institution, social title, first name, last name, street address, city, state or province, ZIP Code or mailing code, telephone (include area code and e-mail); 7) lead investigator (is the lead investigator the same as the main contact person? If not please provide information for the primary person responsible for oversight of the award operation, management, and reporting requirements at the lead institution, social title, first name, last name, street address, city, state or province, ZIP Code or mailing code, telephone number and e-mail); and, 8) provide information about additional investigators (last name, first name, organization).

2. Summary or abstract page

Provide a summary of your project including the following: a brief description of your proposed project, including location, goals, objectives, the actions to be implemented, and the approach to implement the proposal, expected outcomes, and relationship to NFPP goals.

3. Proposal description text

a. **Problem-** describe the problem that the project is designed to address including a brief narrative of the project location. Provide background, including a review of relevant past studies of and solutions (if any) to the problem, here and elsewhere, with appropriate citations of relevant reports. Clearly state the goals, objectives and hypotheses of your proposed study.

b. **Approach** (scope of work) - Provide study design. Describe (if applicable) all sampling, analytical, planning, and construction procedures for each objective as appropriate. Include details about methods and techniques, equipment and facilities, data collection, statistical analysis and quality assurance procedures, performance measures, and describe the criteria to be used in hypothesis testing. Clearly identify how your approach maximizes the information richness and value to decision-makers.

c. **Feasibility-** Demonstrate that the described approach is both feasible and appropriate to the proposed work, and that the project can be completed in the time allotted, allowing for weather and other exigencies. Any contingencies or requirements (e.g., dependence on outcome or timing of other projects, dependence on natural or operational conditions, environmental compliance and permitting) must be thoroughly addressed.

d. **Permits and agreements-** If applicable, explain what permits are necessary to proceed with the tasks described. Explain the current status of each permit. Explain any other constraints that could impact the schedule and the ability to implement the project. Identify the nature and approach to resolving other outstanding implementation issues.

e. **Private property access and landowner permission and participation-** Projects proposed on private property or that require access of private property owned by someone other than the applicant must provide written permission from the property owner. Projects conducted in the field for which specific locations have not been identified in the proposal will be required to provide access needs and permission for access shortly after notification of approval. Failure to include written permission from the property owner may result in disqualification of the proposal. This is another hard copy item that should be sent, along with other hard copy items (such as the signature page), to the RBFWO National Fish Passage Program contact person (See Section VII, Agency contacts).

f. **Data handling and storage** - describe how the data and other information will be handled, stored, and made accessible.

g. **Expected products/outcomes** - Provide a list of planned deliverables such as; reports, presentations, advances in technology, and information transfers via workshops, seminars, education programs, etc. and timing of each.

h. **Qualifications.** Provide brief biographical sketches of the principal participants, identifying education and relevant experience as well as contributions (e.g., completed projects, published reports on the same topic) consistent with their roles and responsibilities in the proposed project. Explain how these participants provide the range of expertise in sciences or other disciplines needed to achieve the project's objectives.

Specify individual roles and responsibilities regarding technical, administrative, and project management. When sub-recipients are identified, explain briefly how they were or will be selected and why. Disclose or discuss any potential problems regarding the principal participants' availability to complete their work within the projected timeline.

4. Work Schedule page

Identify the start and completion dates of each of the tasks and associated deliverables discussed above as well as other key milestones. Clearly identify which tasks are considered to be inseparable if only a portion of the project were to be funded. Identify the potential to incrementally fund and implement the proposed scope of work.

Identify how payments would relate to milestones, as applicable. Please identify project management as an independent task. Provide a time line with expected start and stop dates, and accomplishment of milestones. Tasks identified in the work schedule should match those shown in the budget.

5. Budget

Provide a detailed budget showing how requested funds will be used to carry out the project's scope of work. Costs for each major task described in the "Approach (scope of work)" section of your proposal must be presented. A task for project management should include the specific costs associated with insuring accomplishment of a specific project, such as inspection of work in progress, validation of costs, report preparation, response to project specific questions and necessary costs directly associated with specific project oversight. Applicants should also include costs associated with managing project funds, including preparation of quarterly and final reports to the funding agency. Tasks for environmental compliance, monitoring, project design, data handling, storage, and dissemination, and public outreach should also be included as appropriate for your project. Include information related to cost sharing and in-kind contributions.

Suggested Budget Format:

Months 1 to 12

task	labor	benefits	Travel	supplies and expendables	services and consultants	equipment	lands and rights of way	other direct costs	direct total	indirect costs	total
totals	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

6. Signature page: *If the applicant is unable to submit the proposal via Grants.gov they then must provide a signature page with the following instructions.* A one page sheet with an original signature, the sheet may have a scanned-in signature, otherwise it must be followed up with a faxed or mailed copy. This declaration must be submitted to Brenda Olson, Fish Biologist, 10950 Tyler Road, Red Bluff, CA 96080; telephone 530-527-3043 x227; fax: (530) 529-0292 ; email Brenda_Olson@fws.gov, as identified in Section IV .B. Section 2 by May 29, 2009.

This signature page should declare that all representations in this proposal are truthful, and the individual signing the form is authorized to submit the application on behalf of the applicant (if applicant is an entity or organization). Include proposal title and submitter. *Failure to sign and submit this information will result in the application not being considered for funding.*



Figure 1. Lower Antelope Creek valley floor channels.