Bay Area Water Restoration Library and Clearinghouse

Project Information

1. **Proposal Title:**

   Bay Area Water Restoration Library and Clearinghouse

2. **Proposal applicants:**

   Linda Vida, University of California, Berkeley, Water Resources Center Archives

3. **Corresponding Contact Person:**

   Carol Berman
   Division of Agriculture & Natural Resources
   Contract & Grants 1111 Franklin Street, 6th floor Oakland, CA 94607-5200
   510 987-0050
   carol.berman@ucop.edu

4. **Project Keywords:**

   Database Management
   Environmental Education
   Natural Resource Management

5. **Type of project:**

   Education

6. **Does the project involve land acquisition, either in fee or through a conservation easement?**

   No

7. **Topic Area**:

   Environmental Education

8. **Type of applicant:**

   University

9. **Location - GIS coordinates:**

   Latitude:

   Longitude:

   Datum:

   Describe project location using information such as water bodies, river miles, road intersections, landmarks, and size in acres.

This is a database project.

10. **Location - Ecozone:**

2.1 Suisun Bay & Marsh, 2.2 Napa River, 2.3 Sonoma Creek, 2.4 Petaluma River, 2.5 San Pablo Bay, Code 15: Landscape, Code 16: Inside ERP Geographic Scope, but outside ERP Ecozones

11. **Location - County:**

Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma

12. **Location - City:**

Does your project fall within a city jurisdiction?

No

13. **Location - Tribal Lands:**

Does your project fall on or adjacent to tribal lands?

No

14. **Location - Congressional District:**

9

15. **Location:**

California State Senate District Number: 9

California Assembly District Number: 14

16. **How many years of funding are you requesting?**

3

17. **Requested Funds:**
    a) Are your overhead rates different depending on whether funds are state or federal?

    Yes

    If yes, list the different overhead rates and total requested funds:

    State Overhead Rate: 10

    Total State Funds: 243,574

    Federal Overhead Rate: 35.4

    Total Federal Funds: 299,818

b) Do you have cost share partners <u>already identified</u>?

No

c) Do you have <u>potential</u> cost share partners?

No

d) Are you specifically seeking non-federal cost share funds through this solicitation?

No

If the total non-federal cost share funds requested above does not match the total state funds requested in 17a, please explain the difference:

18. **Is this proposal for next-phase funding of an ongoing project funded by CALFED?**

No

Have you previously received funding from CALFED for other projects not listed above?

No

19. **Is this proposal for next-phase funding of an ongoing project funded by CVPIA?**

No

Have you previously received funding from CVPIA for other projects not listed above?

No

20. **Is this proposal for next-phase funding of an ongoing project funded by an entity other than CALFED or CVPIA?**

No

Please list suggested reviewers for your proposal. (optional)

Peter Vorster   The Bay Institute   510-444-5755

Ann Riley   Regional Water Quality Control Board   510-622-2420

21. **Comments:**

Environmental Compliance Checklist

Bay Area Water Restoration Library and Clearinghouse

1. **CEQA or NEPA Compliance**
   a) Will this project require compliance with CEQA?

   No
   b) Will this project require compliance with NEPA?

   No
   c) If neither CEQA or NEPA compliance is required, please explain why compliance is not required for the actions in this proposal.

   This proposal is for an environmental education grant and will not require obtaining any permits. It involves working with other grantees on a data management project.

2. **If the project will require CEQA and/or NEPA compliance, identify the lead agency(ies).** *If not applicable, put "None".*

   CEQA Lead Agency:
   NEPA Lead Agency (or co-lead:)
   NEPA Co-Lead Agency (if applicable):

3. **Please check which type of CEQA/NEPA documentation is anticipated.**

   CEQA
   -Categorical Exemption
   -Negative Declaration or Mitigated Negative Declaration
   -EIR
   Xnone

   NEPA
   -Categorical Exclusion
   -Environmental Assessment/FONSI
   -EIS
   Xnone

   If you anticipate relying on either the Categorical Exemption or Categorical Exclusion for this project, please specifically identify the exemption and/or exclusion that you believe covers this project.

4. **CEQA/NEPA Process**
   a) Is the CEQA/NEPA process complete?

   Not Applicable

   b) If the CEQA/NEPA document has been completed, please list document name(s):

5. **Environmental Permitting and Approvals** (*If a permit is not required, leave both Required? and Obtained? check boxes blank.*)

LOCAL PERMITS AND APPROVALS

Conditional use permit

Variance

Subdivision Map Act

Grading Permit

General Plan Amendment

Specific Plan Approval

Rezone

Williamson Act Contract Cancellation

Other

STATE PERMITS AND APPROVALS

Scientific Collecting Permit

CESA Compliance: 2081

CESA Compliance: NCCP

1601/03

CWA 401 certification

Coastal Development Permit

Reclamation Board Approval

Notification of DPC or BCDC

Other

FEDERAL PERMITS AND APPROVALS

ESA Compliance Section 7 Consultation

ESA Compliance Section 10 Permit

Rivers and Harbors Act

CWA 404

Other

PERMISSION TO ACCESS PROPERTY

Permission to access city, county or other local agency land.
Agency Name:

Permission to access state land.
Agency Name:

Permission to access federal land.
Agency Name:

Permission to access private land.
Landowner Name:

6. **Comments.**

Land Use Checklist

Bay Area Water Restoration Library and Clearinghouse

1. **Does the project involve land acquisition, either in fee or through a conservation easement?**

   No

2. **Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?**

   No

3. **Do the actions in the proposal involve physical changes in the land use?**

   No

   If you answered no to #3, explain what type of actions are involved in the proposal (i.e., research only, planning only).

   Environmental Education only.

4. **Comments.**

Conflict of Interest Checklist

Bay Area Water Restoration Library and Clearinghouse

Please list below the full names and organizations of all individuals in the following categories:

- Applicants listed in the proposal who wrote the proposal, will be performing the tasks listed in the proposal or who will benefit financially if the proposal is funded.
- Subcontractors listed in the proposal who will perform some tasks listed in the proposal and will benefit financially if the proposal is funded.
- Individuals not listed in the proposal who helped with proposal development, for example by reviewing drafts, or by providing critical suggestions or ideas contained within the proposal.

The information provided on this form will be used to select appropriate and unbiased reviewers for your proposal.

Applicant(s):

Linda Vida, University of California, Berkeley, Water Resources Center Archives

Subcontractor(s):

Are specific subcontractors identified in this proposal? Yes

If yes, please list the name(s) and organization(s):

Rita Schmidt Sudman	Water Education Foundation
Kevin Ward	Uc Davis, ICE
None	None
None	None
None	None
None	None

Helped with proposal development:

Are there persons who helped with proposal development?

Yes

If yes, please list the name(s) and organization(s):

Jacqueline Lesch   Salton Sea Project, University of Redlands

Ann Riley   Regional Water Quality Control Board

Comments:

Budget Summary

<u>Bay Area Water Restoration Library and Clearinghouse</u>

Please provide a detailed budget for each year of requested funds, indicating on the form whether the indirect costs are based on the Federal overhead rate, State overhead rate, or are independent of fund source.

<u>Independent of Fund Source</u>

Year 1											
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
1	Librarian	2080	42780	5133	800	5000	6000	2000	4000	65713.0		65713.00
		2080	42780.00	5133.00	800.00	5000.00	6000.00	2000.00	4000.00	65713.00	0.00	65713.00

Year 2											
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
2	librarian	2080	43635	5236	1000	5000	39000	0	3000	96871.0		96871.00
		2080	43635.00	5236.00	1000.00	5000.00	39000.00	0.00	3000.00	96871.00	0.00	96871.00

Year 3											
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
3	Librarian	2080	44507	5340	1000	5000	3000	0		58847.0		58847.00
		2080	44507.00	5340.00	1000.00	5000.00	3000.00	0.00	0.00	58847.00	0.00	58847.00

Grand Total=<u>221431.00</u>

Comments.
Indirect costs for state funded projects is 10% for a total request of $243,574 and for federally funded is 35.4% with a university definition for equipment of $1500 or more for a total request of $299,818

Budget Justification

Bay Area Water Restoration Library and Clearinghouse

Direct Labor Hours. Provide estimated hours proposed for each individual.

Task 1 Project Librarian - 2080 hours Task 2 Project Librarian - 2080 hours Task 3 Project Librarian - 2080 hours

Salary. Provide estimated rate of compensation proposed for each individual.

Task 1 Project Librarian - $42,780 Task 2 Project Librarian - $43,635 Task 3 Project Librarian - $44,507

Benefits. Provide the overall benefit rate applicable to each category of employee proposed in the project.

Task 1 Project Librarian - $5,133 Task 2 Project Librarian - $5,236 Task 3 Project Librarian - $5,340

Travel. Provide purpose and estimate costs for all non-local travel.

Task 1 Various trips to Davis, Redlands $800 Task 2 Various trips to Davis, Sacramento, Advisory Board meetings,and local conferences $1000 Task 3 Various trips to Davis, Board meetings and local Conferences $1000 $1000

Supplies & Expendables. Indicate separately the amounts proposed for office, laboratory, computing, and field supplies.

Task 1 Cost of mailings, phone, meeting facilities, arrangements and refreshments $5,000 Task 2 Cost of mailings, phone, meeting facilities, arrangements and refreshments $5,000 Task 3 Cost of mailings, phone, meeting facilites, arrangements and refreshments $5,000

Services or Consultants. Identify the specific tasks for which these services would be used. Estimate amount of time required and the hourly or daily rate.

Task 1 Technical assistance in evaluating portal software $100/hour x 20 hours = $2,000 Technical assistance in developing portal design $100/hour x 40 hours = $4,000 Task 2 Assistance from Water Education Foundation Staff to organize & arrange one-day symposium in Bay Area including mailing ($2,000), facilities ($3,000) design & printing invitations ($5,000); WEF staff time 150 hours x $100 = $15,000 Task 2 Assistance from WEF in developing and implementing outreach plan, WEF staff 100 hours x $100 = $10,000 Task 3 Technical Assistance in setting up electronic storage or revising portal 30 hours x $100 = $3000

Equipment. Identify non-expendable personal property having a useful life of more than one (1) year and an acquisition cost of more than $5,000 per unit. If fabrication of equipment is proposed, list parts and materials required for each, and show costs separately from the other items.

Task 1 - Computer Equipment is $2000. University definition of equipment is $1500.00

Project Management. Describe the specific costs associated with insuring accomplishment of a specific project, such as inspection of work in progress, validation of costs, report preparation, giving presentatons, reponse to project specific questions and necessary costs directly associated with specific project oversight.

None - project will be managed by WRCA library director

Other Direct Costs. Provide any other direct costs not already covered.

Task 1 Purchasing portal software - $4,000 Task 2 Purchasing electronic storage - $3,000

Indirect Costs. Explain what is encompassed in the overhead rate (indirect costs). Overhead should include costs associated with general office requirements such as rent, phones, furniture, general office staff, etc., generally distributed by a predetermined percentage (or surcharge) of specific costs.

Indirect cost is 10% Total Direct Cost for state funding and 35.4% Total Modified Direct Cost (equipment costing $1,500 or more is exempt) for federal funding.

Executive Summary

<u>Bay Area Water Restoration Library and Clearinghouse</u>

Millions of dollars are being spent annually on restoration projects but much of this research is inaccessible to the restoration community and the public because there is no centralized repository or easy access. I propose to initiate an Environmental Education project to gather information about projects that are currently funded in the nine Bay Area counties and create a centralized repository - the Bay Area Water Restoration Library and Clearinghouse. I also propose to create a web-based Restoration Portal to provide easy access. Major objectives include: using systems that already exist in order to track and catalog projects and establish a Restoration Portal; organizing an Advisory Committee; hosting Concept Workshops; sponsoring a Symposium, and designing and implementing an outreach plan. The Restoration Library and Clearinghouse will be located at the Water Resources Center Archives (WRCA) on the Berkeley campus. I am requesting three years of funding to hire a librarian. The librarian will contact organizations and agencies that have recently funded restoration projects in the nine Bay Area counties and assist the PI's in entering project summaries into NRPI (http://endeavor.des.ucdavis.edu/nrpi/). The librarian will solicit project documentation in print or electronic form. The Restoration Portal will provide access to a wide variety of information such as documents in print or electronic form, images, events, web sites, organizations, persons, and Web links. The librarian will investigate using the Cross-Media Database (http://institute.redlands.edu/salton) to create the Portal. In addition, a collection of print and/or electronic project documents will be cataloged on the Melvyl system (http://www.cdlib.org/) and maintained at WRCA. Uncertainties related to this project would occur if there were a lack of project documentation submitted to WRCA. This system will benefit both the restoration community and the public. The goals of this project are in harmony with those of CALFED ERP and CVPIA because it promotes community and local involvement, coordination among CALFED and non-CALFED programs, and emphasizes the richness and unique value of restoration information. Restoration information is invaluable and deserves to be maintained, preserved and easily accessible to stakeholders and the public.

Proposal

University of California, Berkeley, Water Resources Center Archives

Bay Area Water Restoration Library and Clearinghouse

Linda Vida, University of California, Berkeley, Water Resources Center Archives

Bay Area Water Restoration Library & Clearinghouse

Problem

Currently, in California, there is heightened public interest in and awareness of the state of the environment and the sustainability of our water supplies. Millions of dollars are being spent annually on restoration projects that are funded by federal, state, and local agencies, non-governmental organizations (NGO) and private foundations. However, much of this research is inaccessible to the restoration community because of the shear volume of it and the lack of a centralized repository that would provide easy access. There is also a need to ensure that restoration funds are expended on new and innovative research and projects. The researchers themselves and the funding agencies need in-depth technical project information to ensure that new projects continue to build on other successful projects. There is a need for fast, easy, and accurate access to an array of restoration information to benefit the restoration community, funding organizations and the public. (See Figure 1)

Having easy access to restoration project information will promote the public's interest and involvement in their community. I believe that ultimately there is a need to establish the *California Water Restoration Library and Clearinghouse*. I propose to initiate a project to gather water-related restoration information about projects that are currently funded in the nine Bay Area counties. The goal of this project is to create the ***Bay Area Water Restoration Library and Clearinghouse***. I believe that the Bay Area is the region with the greatest number of projects. Starting here will allow a tiered approach to the ultimate goal. Major objectives include: using three systems that already exist in order to track and catalog projects; establishing a web **Restoration Portal**; forming an interdisciplinary Advisory Committee; hosting several Concept Workshops with stakeholders in the restoration community; sponsoring a one-day restoration Symposium, and designing and implementing an outreach plan. Starting this project on a smaller scale will allow me to test the hypothesis to determine if the goals and objectives are realistic.

Location

The Bay Area Water Restoration Library and Clearinghouse will be located at the Water Resources Center Archives (WRCA) on the UC Berkeley campus. The library was founded in 1957, and collects historical and current information on all aspects of water development and management in California and the West. The mission of the Archives is to maintain and continue to develop its collection of current and historical water-related materials to meet the information needs of the University of California (UC), and the people of the state of California. It is the premier library of its kind in the United States with an extensive collection of unique materials. The staff has years of experience managing, preserving and providing access to information.

Approach

The Library and Clearinghouse will be established by hiring a full-time librarian for 3-years. The project librarian would draw upon staff expertise at WRCA to make contacts in the restoration community. Linda Vida, WRCA Library Director, will oversee all aspects of this project.

The project librarian will contact organizations and agencies who have recently funded water restoration projects in the nine Bay Area counties. The organizations will be asked to provide contact information for the Principal Investigators (PIs) of currently funded projects. The project librarian will contact the PIs in order to assist them in entering project summaries into the Natural Resources Project Inventory (NRPI) database.

NRPI is hosted by the **Information Center for the Environment (ICE)** (http://ice.ucdavis.edu) located at the University of California, Davis. ICE maintains NRPI (http://endeavor.des.ucdavis.edu/nrpi/) a web-based database that provides access to summaries of past and current natural resource restoration projects. Some California State agencies currently require that project summaries be entered into the NRPI system as part of the PIs final report. This effort needs to be expanded to include all funded restoration projects in the nine Bay Area counties. The more comprehensive this system is, the more useful it will be to everyone involved in water-related restoration projects. Although ICE has the equipment and the technical expertise to maintain this database, they don't have the staff needed to add project inventories to their system, nor do they collect any project documents. WRCA has already established a relationship with NRPI since WRCA was funded for two subsequent years by the San Francisco Foundation to enter information about the San Francisco Bay Fund grant projects into the NRPI system.

The **Bay Area Water Restoration Library and Clearinghouse** will combine the power of current technology and the systems and procedures of a traditional library. The project librarian will develop a web-based **Restoration Portal** to provide access to a wide variety of pertinent information. The librarian will catalog documents in print or electronic form, images, events, web sites, organizations, persons, and Web links and make them accessible via the Restoration Portal. Eventually, the Library and Clearinghouse will investigate including GIS and other monitoring data as part of the Restoration Portal. However, at this time, that would add too much complexity to this project. In order to develop the Restoration Portal, the project librarian will investigate using the **Cross-Media Database**, a system that already exists. This database is currently being used for coordinating information pertaining to the Salton Sea restoration effort and is searchable at (http://institute.redlands.edu/salton). The Cross-media database allows users to search for specific project documents by various criteria and download them if they are available electronically and if copyright permits. The Restoration Portal will allow users to connect to NRPI to view project summaries, or search for pertinent documents, images, events, web sites, organizations, or persons. The project librarian will need the assistance of a contract webmaster in order to assists with the technical elements of developing the Restoration Portal. The Portal will be hosted by the University of California.

In addition to collecting and archiving the print and/or electronic project documents at WRCA, these documents will be cataloged and accessible via the Melvyl system (http://www.cdlib.org/) the University of California on-line catalog. Melvyl is widely available and used on a statewide, national and even international basis. The Portal will connect to Melvyl in order to provide access to a full array of traditional library information.

I propose to use the Cross-media database or a comparable system as a key component of the **Bay Area Water Restoration Library and Clearinghouse** and the **Restoration Portal**. This Portal will become a resource for restorationists, regulators, government officials and the public and can reach a wide audience.

Concurrently, the project librarian would invite stakeholders from different sectors of the restoration community to participate on a core Advisory Committee. The Committee will be composed of representatives from federal, state, and local governments, NGO and private foundations, academia, the restoration and business community. The Advisory Committee will assist in conducting two or three regional Concept Workshops. The Workshops will explore the specific needs of the restoration community and define additional information or services that should be provided by the Bay Area Water Restoration Library and Clearinghouse.

At the end of the second year, the project librarian will host a one-day Restoration Symposium. The restoration community from around the state will be invited to attend. The Restoration Portal as well as the working concept of the Bay Area Water Restoration Library and Clearinghouse will be presented. This will give the restoration community the opportunity to view and comment upon the Portal and Library. This venue will help disseminate information about the new Portal and Library resource available and give restorationists an opportunity to network. The project librarian will sub-contract with staff of the Water Education Foundation to organize and advertise the Symposium.

The project librarian will develop an outreach program to disseminate information about the Portal and library to a diverse population. The Water Education Foundation (WEF) will be sub-contracted to assist with this aspect of the project. This is a vital part of the program and will make the Restoration Portal known to pertinent communities in the Bay Area, including public libraries, schools, local agencies, organizations and businesses. A special effort will be made to contact under-represented and low-income communities. Learning about restoration projects in their communities may help develop interest and pride in their communities. This effort may ultimately lead to volunteer monitoring efforts.

Feasibility

I believe that a three-year timeline is adequate to accomplish the project objectives and goals because of the regional nature of the proposal and the fact that WRCA staff has appropriate contacts in the restoration community and the expertise to oversee all facets

of this project. Also, the project will use systems that already exist; NRPI, Melvyl and the Cross-Media database. I believe that the annual tasks are reasonable.

The prospects for the success of this project are excellent because it will use existing functioning systems. The WRCA staff currently has the technical knowledge and expertise to work with consultants to design and create a web page (http://www.lib.berkeley.edu/WRCA/). WRCA staff has extensive information management experience and the organizational skills necessary to ensure that the data is gathered, entered and maintained in an organized, accurate manner. WRCA staff already has extensive connections to the restoration community and has had some experience designing and implementing outreach programs to a diverse clientele.

Qualifications

Linda Vida, will be the **principal investigator** for this project. As Library Director of the Water Resources Center Archives for the last seven years she provides reference services pertaining to all aspects of California water resources on a daily basis to a diverse clientele of students, faculty, consultants, federal and state employees and the public. She is knowledgeable of the electronic resources that are available in this area. Over the years, by exhibiting at ACWA Conferences, attending water conferences and creating an Advisory Board to the Friends of the Archives, she has developed many key contacts in the water community. She has successful project management experience and has instituted successful outreach plans and is uniquely qualified to undertake and accomplish this project.

Performance Measures

Staff at the Waterways Restoration Institute has agreed to review and evaluate this project on a quarterly basis. They will help evaluate the objectives, tasks and timeline and make modifications as necessary. They will attend the Concept Workshops and receive and analyze comments. They will function as an ex-officio member of the Advisory Board.

This project will be evaluated in several additional ways to determine if it is successful:

 1) The project librarian will track project summaries entered into the NRPI system. The librarian will compare lists of funded projects to make sure that as many projects as possible have an entry in the NRPI database. The project librarian will routinely check a sampling of entries to ensure that they are as complete as possible. The project librarian will contact the PI's of funded projects without an entry in NRPI and assist them in entering a record into NRPI. In some cases, the project librarian will assist them by filling out the forms and submitting them to NRPI after the PIs review.

2) An Advisory Committee will be established and minutes of all meetings will be maintained and distributed to all interested parties. A record of all Concept Workshops will also be maintained and distributed.

3) The Restoration Portal will be established and will record every time that the Portal is accessed. This information will be recorded regularly to determine if use is increasing. A survey form will be included on the Portal to encourage comments.

4) A survey will be sent out during the second year to a percentage of schools, libraries and organizations that have received information as part of the outreach plan. The survey will help assess the success of the program.

5) Attendees at the Restoration Symposium will be asked to evaluate the conference, the Portal and the Library and Clearinghouse.

Data Handling and Storage

Restoration project summaries will be maintained by ICE/NRPI on their web site.
Printed data will be cataloged and maintained onsite at WRCA or will be accessible at the Northern Regional Library Facility and retrievable within 24 hours. The project librarian will investigate the best method to manage and store any electronic documents. If the project requires large electronic storage, we may have to purchase additional storage. The project librarian will investigate the costs associated with this. The Restoration Portal will reside on a University of California server.

Expected Products/Outcomes

The **Restoration Portal** will serve as a comprehensive resource to those interested in creating new partnerships among different sectors since everyone will have access to the same current information. This project will establish a permanent collection of restoration materials and create a historical record to be used by anyone interested in restoration to augment the existing collection of materials at WRCA.

Results of the Concept Workshops will assist to direct the efforts of the project librarian and assist in developing the Restoration Portal. The Restoration Symposium will provide a networking forum for the entire restoration community and assist in disseminating information about this new Web resource.

The restoration community will have easy, fast and accurate access to a full array of information that may eventually affect the kind of projects that are funded. This project will be a public resource and foster an open forum by being accessible to scientists, consultants, government and local communities. Having access to this information could spur local residents to propose projects, volunteer to monitor projects, or create

partnerships with different stakeholders. Increased participation and partnerships may help solve some of the most important and complex environmental problems.

This is an essential step to determine if establishing the California Water Restoration Library and Clearinghouse is feasible. This system will benefit both the restoration community and the public. The goals of this project are in harmony with those of CALFED ERP and CVPIA because it promotes community and local involvement, coordination among CALFED and non-CALFED programs, and emphasizes the richness and unique value of restoration information. Restoration information is invaluable and deserves to be maintained, preserved and easily accessible to stakeholders and the public.

Work Schedule Outline

WRCA proposes to hire a full-time **Associate Librarian** for three years to work on all aspects of this project.

Task One

Year one, First 3 months:

  1) The librarian will become familiar with the water restoration funding agencies in the nine Bay Area counties:
- will contact them by mail, email or telephone, explain the project and solicit lists of funded projects and PIs contact information
- will develop and send out a survey to determine the types of project documentation that exists and determine what stakeholders need

  2) The librarian will become familiar with NRPI and the specifics of entering project summaries:
- will encourage and/or assist PIs in submitting project summaries

  3) The project librarian will contact potential Advisory Group Committee Members and ask them to participate on the Committee.

3-6 months:

  4) The librarian will become familiar with the Cross-Media database and investigate any other appropriate databases:
- will start to develop a keyword thesaurus for the project
- will investigate a host for the Cross-Media database or equivalent database
- will investigate cost and technical details of electronic storage

  5) The project librarian will meet with the Advisory Committee and develop a mission statement, guidelines, work plan, and meeting schedule.

6-9 months:

  6) The project librarian will encourage the PIs to deposit technical project information in print or electronic form at the Water Resources Center Archives (WRCA) for the Bay Area Restoration Library and Clearinghouse collection:

- WRCA staff will catalog print or electronic information in the Melvyl catalog
- project librarian will convene a concept workshop of academics, restorationists, government officials, and the public to solicit comments and feedback to ensure that the concept of the Portal and Library is fulfilling the needs of the restoration community
- project librarian will continue to work on the keyword thesaurus

9-12 months:
7) The librarian will start to develop the Restoration Portal by adding/cataloging pertinent information to the system: documents, images, people, events, web links, organizations.
8) Convene additional Concept Workshops.
9) Work with WEF to begin organizing the Restoration Symposium.

Task Two

Year Two, First 9 months:
10) Continue to develop the Restoration Portal & Library.
11) Continue to contact agencies, encourage PIs to enter project summaries into NRPI.
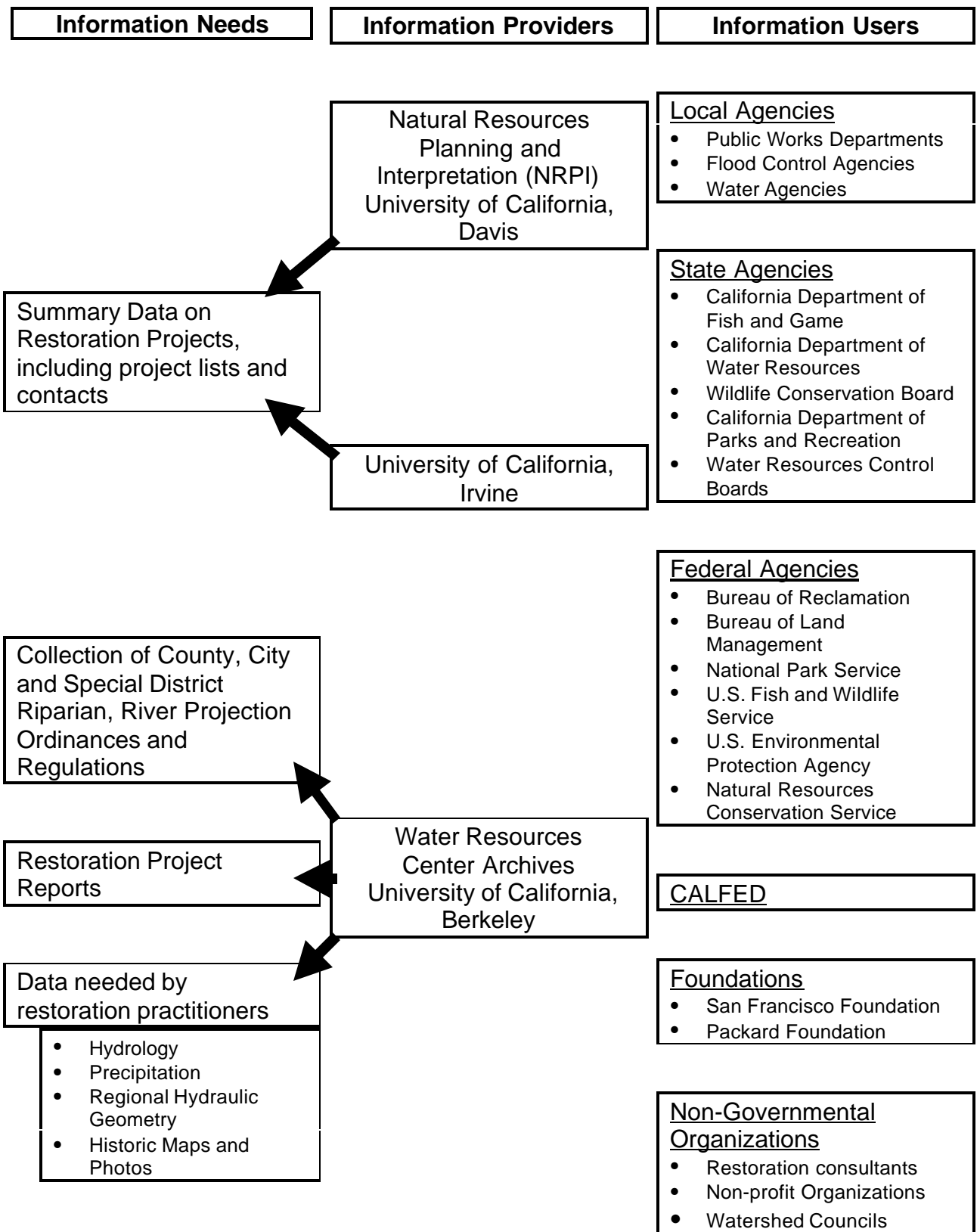12) Continue to implement suggestions from the Concept Workshops.

9-12 months:
13) The project librarian in coordination with WEF will develop an expanded outreach plan:
- attend pertinent local conferences to meet key people in the restoration community
- write articles about the project for local newsletters
- work with the WEF to develop and implement additional outreach material to publicize the Restoration Portal to schools, libraries, business and the restoration community
- will monitor hits on the Portal to see if use is increasing, maintain statistics of summaries entered in NRPI, number of documents deposited at WRCA, and maintain reference statistics about questions related to the Library and Clearinghouse.
14) Host the Restoration Symposium with the assistance of WEF.

Task Three (This step may be eliminated if funding is limited)

Year Three
15) Continue to build the Restoration Portal by cataloging material.
16) Continue to receive and implement suggestions from Symposium participants or stakeholders in the restoration community.
17) Continue to meet with the Advisory Committee and assess the progress of the Restoration Portal.

Information Needs	Information Providers	Information Users

Natural Resources Planning and Interpretation (NRPI) University of California, Davis

Local Agencies
- Public Works Departments
- Flood Control Agencies
- Water Agencies

Summary Data on Restoration Projects, including project lists and contacts

State Agencies
- California Department of Fish and Game
- California Department of Water Resources
- Wildlife Conservation Board
- California Department of Parks and Recreation
- Water Resources Control Boards

University of California, Irvine

Federal Agencies
- Bureau of Reclamation
- Bureau of Land Management
- National Park Service
- U.S. Fish and Wildlife Service
- U.S. Environmental Protection Agency
- Natural Resources Conservation Service

Collection of County, City and Special District Riparian, River Projection Ordinances and Regulations

Water Resources Center Archives University of California, Berkeley

Restoration Project Reports

CALFED

Data needed by restoration practitioners
- Hydrology
- Precipitation
- Regional Hydraulic Geometry
- Historic Maps and Photos

Foundations
- San Francisco Foundation
- Packard Foundation

Non-Governmental Organizations
- Restoration consultants
- Non-profit Organizations
- Watershed Councils

Bay Area Water Restoration Library and Clearinghouse – Figure 1