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San Juan Water District

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July 28, 1997

Kate Hansel
CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

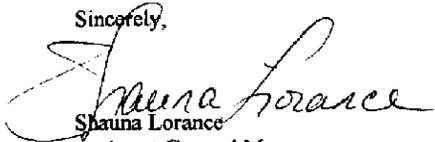
Subject: 1997 Category III Request for Proposals

Dear Ms. Hansel:

Thank you for the opportunity to submit this proposal for the 1997 Category III Request for Proposals. On behalf of San Juan Water District and the many other participants, I am sure you will find this proposal worth your consideration.

If you have any questions, please feel free to contact me at (916) 791-0115.

Sincerely,


Shauna Lorance
Assistant General Manager

I. EXECUTIVE SUMMARY

- a. Project Title: Regional Water Master Plan
Applicant Name: San Juan Water District

- b. Project Description and Primary Biological/Ecological Objectives:

Project Description: The Spring-run Chinook Salmon, the Late-run Chinook Salmon, and the Steelhead trout have been struggling to survive in the Lower American River during dry years. Allowing additional water to flow down the Lower American River during dry years would enhance the survivability of these species.

The plan is to allow additional water to flow down the Lower American River is to develop a plan among surface water and groundwater suppliers to use excess surface water during the wet years, and get off surface water supplies in the dry years (Conjunctive Use). The total amount of water that would be available during the driest years from the purveyors involved in this plan is 90,000 AF in year 2030. The proposed Regional Water Master Plan will be our action plan for accomplishing just this. This will be the last plan, or study, prior to implementing design and construction. This plan is an outgrowth of the planning in the Sacramento Area Water Forum.

Primary Biological/Ecological Objectives: The primary biological/ecological objective is to improve the instream aquatic habitat in the Lower American River during the dries years by allowing an additional 90,000 AF of water to be available by year 2030. This would increase flows in the Lower American River during the driest years, as well as increase the cold water pool in Folsom Lake, reducing the temperature in the Lower American River. This will enhance the instream aquatic habitat in the Lower American River for the spring-run and late-fall run Chinook salmon and the Steelhead trout.

- c. Approach/Tasks/Schedule

Proposed Approach: The proposed approach is to develop a Regional Water Master Plan that will identify additional facilities that will allow purveyors to utilize alternative supplies during the dry and critically dry years. A couple of alternatives have been identified by varying purveyors, including using reclaimed water and a strong conjunctive use. Both alternatives will require a significant amount of expenditures for redundant facilities and improvements to existing distribution systems.

Proposed Tasks: The proposed tasks for the Regional Water Master Plan will be evaluation of water demands, existing surface water facilities, groundwater evaluation and facilities, operations plan and strategy, and cost estimates. This plan will be an action plan that will lead to design and construction of facilities that will allow the water purveyors to limit their surface water supplies, and rely on groundwater during

dry and critically dry years. This will provide the additional water for Folsom Lake and the Lower American River during dry and critically dry years.

Proposed Schedule: The proposed schedule is to complete the Regional Water Master Plan within 18 months. Design and construction can then follow immediately.

d. Justification for Project and Funding by CALFED

The instream aquatic habitat of the Lower American River will be improved during the critically dry years when the stress is at the highest. The additional water that will be stored in Folsom Lake will significantly contribute to a larger cold water pool available, thereby reducing the temperature of the water that is released into the Lower American River. The amount of water that is available to the Lower American River will also be increased during the critically dry years, the time of the highest stress to the aquatic habitat in the area.

The benefit to the spring-run and late-fall run Chinook salmon and Steelhead is the availability of additional water and cooler temperatures. An additional 90,000 acre-feet of water will be allowed to flow down the Lower American River.

e. Budget Costs and Third Party Impacts

The estimated cost for the plan is between \$800,000 and \$1,000,000. Funding for \$300,000 has already been identified from participants. This proposal requests \$500,000 to \$700,000 for this stage. Additional funding could be requested for construction activities, in relation to the benefit that will be received by CALFED.

There are not any significant third party impacts identified at this time.

f. Applicant Qualification

The plan will be completed by a team of consultants. San Juan Water District is qualified to manage qualified consultants for this project.

g. Monitoring and Data Evaluation

Not applicable for this first phase. Further discussion under Project Description.

h. Local Support/Coordination with other Programs/Compatibility with CALFED objectives

There is complete local support for this project, ranging from environmentalists to Placer and Sacramento County, to water agencies, businesses, and citizens groups. We are coordinating and have support from USBR, DWR, and all of the agencies listed in this proposal, along with the Water Forums. The objectives of CALFED will definitely benefit from the implementation of the plan. This is better described in section "d" above.

II. TITLE PAGE

- a. Title of Project: Regional Water Master Plan
- b. Name of applicant: Shauna Lorance, Assistant General Manager
- Address: San Juan Water District
9935 Auburn Folsom Road
Granite Bay, CA 95746
- Phone Number: (916) 791-0115
- Fax Number: (916) 791-7361
- e-mail: Slorance@ns.net
- c. Type of Organization and Tax Status: Community Services District
Exempt (Governmental Agency)
- d. Tax Identification Number: 94-6021906
- e. Technical and Financial Contact Persons:
- Technical: Shauna Lorance, Assistant General Manager
Financial: Von Carter, Finance and Accounting Manager
- f. Participants/Collaborators in Implementation:
- At this time, the Participants are: United States Bureau of Reclamation, Arcade Water District, Citrus Heights Water District, Fair Oaks Water District, City of Folsom, Northridge Water District, Orange Vale Water Company, City of Roseville, and San Juan Water District. We are continuing to add new participants.
- g. Monitoring and Data Evaluation – See discussion under Project Description
- h. RFP Project Group Type(s):
- Watershed Management Planning and Implementation
Aquatic and Terrestrial Habitat Restoration
Eventually, Construction

III. PROJECT DESCRIPTION

a. Project Description and Approach

The Spring-run Chinook Salmon, the Late-run Chinook Salmon, and the Steelhead trout have been struggling to survive in the Lower American River during dry years. Allowing additional water to flow down the Lower American River during dry years would go a long way to improving the survivability of these species.

The most logical way to allow additional water to flow down the Lower American River is to develop a plan among surface water and groundwater suppliers to use excess surface water during the wet years, and get off surface water supplies in the dry years (Conjunctive Use). This would seem like an easy solution, but success has been slow. However, arriving at an agreement to develop a plan for action has occurred. The proposed Regional Water Master Plan will be our action plan for accomplishing just this. This will not be just another plan. This will be the last plan, or study, prior to implementing design and construction.

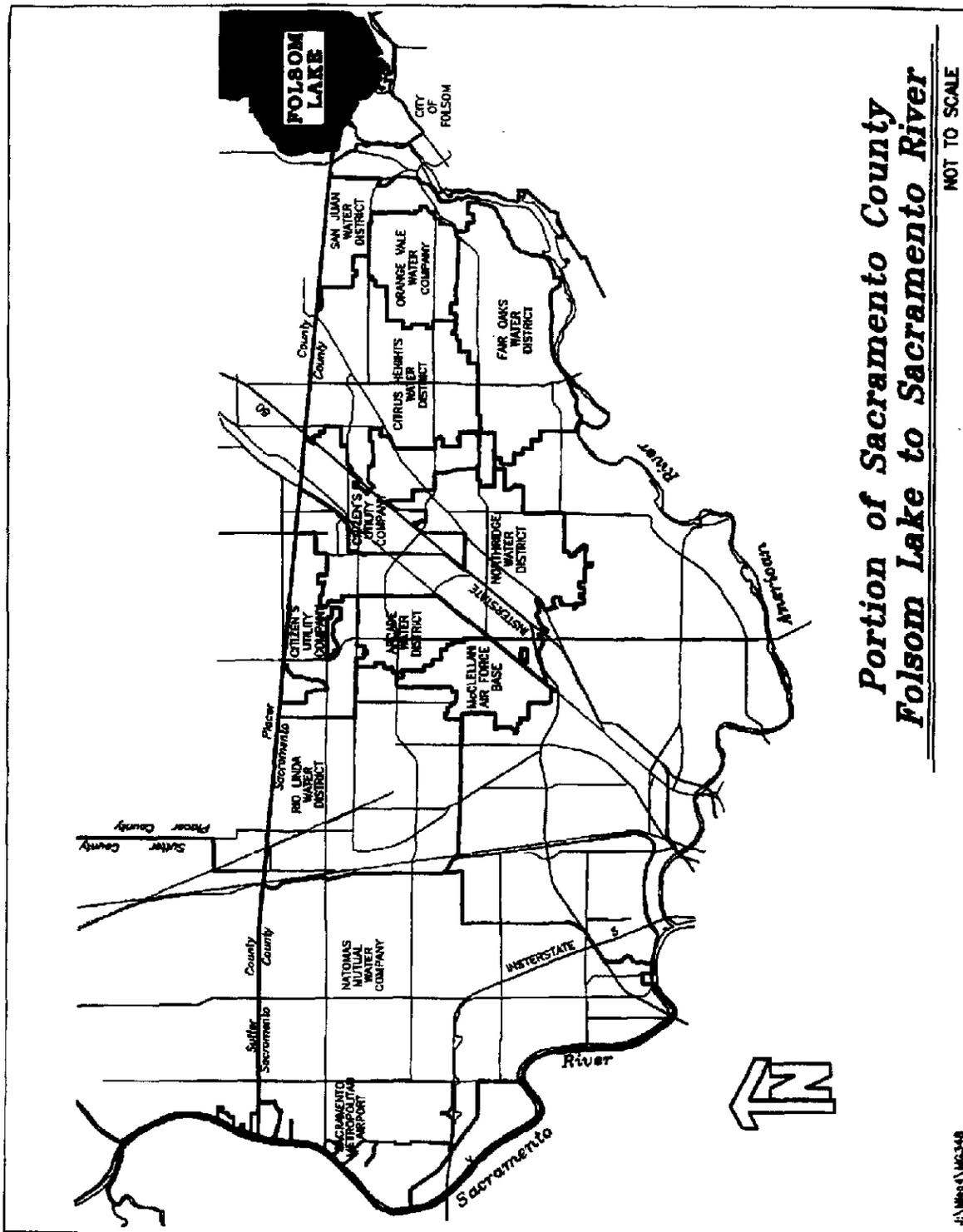
This success has been accomplished by obtaining the support of business and agricultural leaders, environmentalists, citizen groups, water managers and local governments in the Sacramento and Placer Counties. At this time, we do not know of any opposition to our plan. It is very hard to argue the approach of allowing additional water to flow down the Lower American River, and for water purveyors to replace their supply with groundwater. However, the cost for redundant facilities is high. Since the significant benefit will be to the three Priority Species listed above, this project will be a perfect fit for your Category III funding.

b. Location and/or Geographic Boundaries of Project

The location for the proposed project is broad. The area included will be north of the Lower American River, west of Folsom Lake, east of the Sacramento River, and will include both Sacramento and Placer Counties. The area includes the watersheds for the Lower American River and the Sacramento River. The geographical area is shown on the map following this page.

c. Expected Benefit

The Regional Water Master Plan will primarily benefit the Lower American River, with potential residual benefits to the Sacramento River. The benefit will be seen once the construction and agreement stage has been reached. Once the agreements are in place, and the additional facilities are constructed, this will be a permanent benefit to the Lower American River. During the dry and critically dry years, additional water will be allowed to remain in Folsom Lake, and thus be available for release into the Lower American River.



The water purveyors that are currently involved in the Regional Water Master Plan have existing water supplies of 177,100 AF. The Regional Water Master Plan will develop the approach and improvements required for these water purveyors to limit their diversions from Folsom Lake from their potential of 177,100 AF down to 87,100 AF maximum, a reduction of 90,000 AF, during critically dry years. This limitation of diversions will benefit the following priority habitat and species:

Habitat - Instream aquatic habitat

Description - The water flows will be increased, allowing for a reduction in water temperature in the Lower American River.

Priority rationale - The instream aquatic habitat of the Lower American River will be improved during the critically dry years when the stress is at the highest. The additional water that will be stored in Folsom Lake will significantly contribute to a larger cold water pool available, thereby reducing the temperature of the water that is released into the Lower American River. The amount of water that is available to the Lower American River will also be increased during the critically dry years, the time of the highest stress to the aquatic habitat in the area.

Key species – Spring-run and Late-fall run Chinook salmon and Steelhead trout.

Benefit - The benefit to the listed species are obvious, additional water and cooler temperatures. The actual quantifiable benefits were studied extensively as part of the Sacramento area Water Forums process. At this time, the portion of the benefit that arrives solely from the Regional Water Master Plan has not been quantified. However, a total of 90,000 additional AF of water by the year 2030 is definitely a quantifiable benefit.

d. Background and Biological/Technical Justification

Existing Conditions: The existing condition in the Sacramento area is for the eventual use of existing water rights and water contracts up to a total of 177,100 AF for the participants in the Regional Water Master Plan. However, we are all aware that the existing environmental condition of the Lower American River is at risk. Diversion of the total 177,100 AF during the dry and critically dry years would impact the supplies available in Folsom Lake for the release to the Lower American River. The Spring-run and Late-fall run Chinook salmon and Steelhead trout would suffer under these conditions.

Proposed Approach: The proposed approach is to develop a Regional Water Master Plan that will identify additional facilities that will allow purveyors to utilize alternative supplies during the dry and critically dry years. A couple of alternatives

have been identified by varying purveyors, including using reclaimed water and a strong conjunctive use. Both alternatives will require a significant amount of expenditures for redundant facilities and improvements to existing distribution systems.

Basis for Expected Benefits: The expected benefits arise from the limitation of Folsom Lake surface water during the dry and critically dry years. During dry years the limitation on surface water diversions will decrease in proportion from 177,100 to 87,100 AF when the March through November Unimpaired Inflow to Folsom Reservoir is less than 950,000 AF and greater than 400,000 AF. The critically dry years, when the March through November Unimpaired Inflow to Folsom Reservoir is less than 400,000 AF, will limit 2030 diversions to 87,100 AF.

Durability of Benefits: With the additional facilities constructed, there will be a commitment through 2030 for additional water available in Folsom Lake. With the facilities constructed, and a precedence set, it is probable that this benefit will be continued in perpetuity.

Current Status of Project: This is a new project, just starting. We have issued Requests for Qualifications from consulting firms. The General Managers from each of the water agencies will be meeting Tuesday, July 29, to select the firms that will be offered a proposal. To date, there have not been any expenditures in cash, just staff time. To date, we have received a minimum of a \$50,000 commitment from the Bureau of Reclamation, and each of the water agencies has agreed to participate financially.

The main accomplishments to date have been to get all of the water agencies to agree to limiting diversions during dry and critically dry years. Most of this has been accomplished in the Water Forum process. This is now the next step for selected agencies to begin implementing some of the agreements made during this process.

e. Proposed Scope of Work

The proposed phases for the Regional Water Master Plan will be study/plan, design, and construction.

Study/plan: The first stage will be the development of a Regional Water Master Plan. This will involve consultants, and is expected to take approximately 18 months. The specific tasks involved in this study are as follows:

- Water Demand Analysis
 - Evaluation of demands
 - How to meet demands in the future through conjunctive use
- Surface Water Facilities
- Groundwater
 - Philosophy of use

- Evaluation of well systems
- Evaluation of existing distribution systems
- Evaluation of groundwater basin
- Groundwater Development Master Plan
- Adequacy of existing wells
- Requirements of additional wells/upgrades to existing wells
- Available well sites
- Transmission requirements
- Operations Plan/Strategy
 - Operations philosophy
 - Operations structure
 - Staffing – operations
 - Staffing - administration
- Cost Allocations

The operations plan/strategy, in addition to the Water Forum agreements, will provide you with the assurance that water deliveries from Folsom Lake will be limited during dry and critically dry years.

Design: The plan will develop a schedule for design and construction of required facilities. Design on some facilities is anticipated to start soon after the completion of the plan. It is anticipated that the recommendations in the plan will include groundwater wells, transmission pipeline improvements, and possible a new water treatment plant on either the Sacramento River or the Feather River (to allow flexibility on water supplies between the Sacramento River or the Feather River and Folsom Lake). The schedule for this phase will depend on the recommendations in the plan.

Construction: Construction will follow the design phase. Construction schedule will depend on the facilities recommended.

f. **Monitoring and Data Evaluation**

The Water Forums will be monitoring the Lower American River. This information will be used to confirm that the additional water available to the Lower American River is benefiting the spring-run and late-fall run salmon and steelhead trout.

g. **Implementability**

This project is highly implementable. At this time, the proposed plan is in compliance with all laws and regulations. Permits for construction of groundwater wells are anticipated, but there is not opposition to the concept at this time. Obtaining land for groundwater wells could have difficulties, but it is not anticipated at this time. All other improvements are compatible with the Water Forums Agreement. As a result, we have active support of the environmentalists, business leaders, community, and water agencies.

IV. COSTS AND SCHEDULE TO IMPLEMENT PROPOSED PROJECT

a. Budget Costs

Plan - The budgeted costs for the initial plan is estimated at \$800,000 to \$1,000,000. This cost is for consultant time in preparing the plan. Although there will be a significant amount of staff time involved, this will be covered by the agencies involved. On the following page is a table that breaks down the costs by task for the Regional Water Master Plan.

At least \$50,000 of this will be provided by the United States Bureau of Reclamation. We are anticipating approximately \$250,000 of funding from the remaining participants, depending on the level of benefit received. We are requesting \$500,000 to \$750,000 of funding from the Category III, CALFED funding.

Design and Construction – At this time, we do not have a firm estimate of the costs involved, as they will be dependent on the recommendations in the plan. However, we would like to ask CALFED to pay for the portion of benefit that is received by CALFED.

b. Schedule Milestones

The anticipated start date for the Regional Water Master Plan is October or November of 1997. It is anticipated that the project would be complete within approximately 18 months. On the page following the Estimate of Costs is a proposed schedule for the tasks described above. Payments could relate to completion of each of the identified tasks.

c. Third Party Impacts

The only third party impacts that can be foreseen at this time are the location of the groundwater wells. However, any potential impact will be identified, and mitigation determined.

**ESTIMATE OF COSTS FOR THE TECHNICAL
DEVELOPMENT OF A REGIONAL WATER MASTER PLAN**
(Estimates will be refined as scope is identified)

	ACTION ITEM	ESTIMATE COST
1	Study of existing and future demands <ul style="list-style-type: none"> ▪ Historical demand ▪ Existing demand ▪ Estimated future demand <ul style="list-style-type: none"> When, where, how much ▪ How demand is being met today ▪ How demand can best be met in the future <ul style="list-style-type: none"> Surface and groundwater-cost and supply tradeoffs 	\$50,000
2	Surface water study <ul style="list-style-type: none"> ▪ Water rights and contracts ▪ Future opportunities to acquire additional surface water supplies ▪ Diversion points ▪ Treatment facilities ▪ Storage facilities ▪ Transmission facilities ▪ Operations (most of this info exists at San Juan)	\$40,000
3	Evaluate conditions of existing wells <ul style="list-style-type: none"> ▪ Number of wells ▪ Location of wells (map) ▪ Condition of wells ▪ Production ▪ Necessary improvements 	\$100,000
4	Evaluate existing distribution system <ul style="list-style-type: none"> ▪ Components – major pipelines ▪ Map ▪ Joint water distribution system hydraulic model 	\$175,000
5	Evaluate groundwater basin <ul style="list-style-type: none"> ▪ Location of groundwater ▪ Current condition ▪ Quality issues ▪ Basin flow 	\$200,000
6	Groundwater development master plan <ul style="list-style-type: none"> ▪ Evaluate adequacy of current well system ▪ Requirements of additional wells / upgrades to existing wells ▪ Available well sites ▪ Transmission requirements 	\$200,000
7	Operations plan <ul style="list-style-type: none"> ▪ Operations philosophy ▪ Operations structure ▪ Staffing – operating ▪ Staffing – administrative 	\$50,000
	Subtotal:	\$815,000

DRAFT SCHEDULE FOR REGIONAL WATER MASTER PLAN

	1997												1998												1999											
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D			
1. Existing and Future Demands							X	X	X																											
2. Surface Water Study							X	X	X																											
3. Condition of Existing Wells							X	X	X																											
4. Existing Distribution System							X	X	X	X	X	X																								
5. Groundwater Basin										X	X	X	X	X	X	X	X																			
6. Groundwater Master Plan																	X	X	X	X	X	X														
7. Operations Plan																						X	X	X	X											

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V. APPLICANT QUALIFICATIONS

The overall concepts to be used as the framework for this Regional Water Master Plan were identified through the Water Forums.

The development of the Regional Water Master Plan will be completed by a team of consultants. We have received Statements of Qualifications from engineering consultant firms. When the final team of consultants is selected, we will be happy to provide you with their Qualifications. We can assure you, the selected consultants will be qualified to complete this project.

Since we have not selected the consultants at this time, I can not provide you with the information that you have requested. Should you need any additional information, please feel free to call me and I will be happy to answer any questions you may have.

VI. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS

The terms and conditions are agreeable and able to be complied with by San Juan Water District.

NONDISCRIMINATION COMPLIANCE STATEMENT

COMPANY NAME

San Juan Water District

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Shauna Lorange

DATE EXECUTED

July 24, 1997

EXECUTED IN THE COUNTY OF

Placer

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE

Assistant General Manager

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

San Juan Water District