Sutter Bypass Butte Slough Water Users Association
Technical Assistance Request

1. Project Information

1. Applicant
    a. Jon Munger on behalf of Sutter Bypass Butte Slough Water Users Association
    (530) 674-2837
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2. Landowner Type
    a. Private agricultural farms
    b. Recreational hunting clubs and preserves
    c. Representatives of landowners

3. Geographic Scope
    a. Property location
        i. Sutter Bypass, Highway 20 to Fremont Weir (to be refined)
        ii. Subregional basin
            a) Sutter Bypass

4. Planning Project Type
    a. Project concept
    b. Proof of concept plan
    c. Development of agreements between landowners and sponsoring agencies

5. Project Description and Tasks
    a. Attached

6. Proposed Timeline
        i. August 2022 through April 2023

7. Cost Estimate
    a. $175,000

8. Reporting
    a. Deliverables described in attached scope.

Scope of Work

Sutter Bypass Butte Slough Water Users Association - Technical Assistance

Background

Reclamation District 108 (RD108) has received a grant to undertake the Landscape Scale Multi-Benefit Floodplain Feasibility Study, which is also known as *Floodplains Reimagined.* This effort will evaluate the feasibility of reintroducing low flows into the Butte Sink, Sutter Bypass and Colusa Basin, during the winter months to reactivate historical floodplains for habitat benefits. *Floodplains Reimagined* includes investigating the feasibility of combinations of potential options including modifications to multiple existing weir and gated outlet structures and/or construction of new structures to reconnect rivers to their historical floodplains and improving and creating flow conveyance infrastructure needed to reactivate floodplains.

RD108 has earmarked a portion of the grant funding to assist landowners with technical support to develop opportunities on their property which would help achieve the goals and objectives of *Floodplains Reimagined*, and which would also contribute to achieving landowner objectives for their properties.

RD108 has retained KSN and cbec and their respective team of subconsultants to be the technical team to advance *Floodplains Reimagined.* This Technical team will provide the Sutter Bypass Butte Slough Water Users Association (Association) with technical assistance to assess the potential benefits and impacts voluntary participation in *Floodplains Reimagined* process might bring private landowners within the Sutter Bypass. This scope of work describes the proposed technical assistance to be provided.

Task 1: Kickoff & Coordination

The Technical team will conduct an in-person kickoff meeting with the Association to discuss overall scope of the effort and identify key objectives to be achieved.

Technical team will meet with the Association monthly (up to 6 meeting) to review progress. For budgeting purposes, it is assumed that 3 of the progress meetings will be virtual.

Technical team will be available for up to six additional in-person meetings to meet with individual property owners as needed.

Technical team will coordinate with RD 108 to obtain available funding and execute any necessary funding agreement(s) and/or contracts to perform this scope of work.

Deliverables:

- ✓ Participation in meetings
- ✓ Meeting agendas and summaries.
- ✓ Funding agreements and/or contracts

Task 2: Technical Analyses

The Technical Team will meet with property owners to share and discuss the Sutter Bypass Management Plan hydrodynamic modeling results. Based upon the model results and property owner input and subsequent review, the Technical team will identify potential actions with the Sutter Bypass that can contribute to achieving the contributions to restoration identified by Floodplains Reimagined and other programs. The property owners will provide feedback on the suite of potential actions.

To support a preliminary evaluation of potential actions, limited fieldwork and hydrodynamic modeling will be conducted. Significant new data collection is not anticipated as part of this project; however, up

to two days, as coordinated with the property owners, will be used to collected limited elevation information to refine the hydrodynamic model. The Technical Team will utilize the hydrodynamic model to simulate the potential actions and quantify benefits and potential landowner impacts which may result from their implementation. Up to one new simulation will be conducted assuming the suite of potential actions can be simulated collectively. The Technical Team will meet with the property owners to share and discuss the new modeling results.

The Technical team will develop summary project descriptions of these potential actions to share with Association members and landowners to facilitate understanding amongst landowners of potential impacts and benefits of potential actions. The project descriptions will include total acreage, summary of infrastructure needed for implementation, and a discussion of land management practices needed to sustain the action. Following review and input from the Association, the Technical team will develop an overall programmatic-level project description which includes sufficient information for inclusion in the future programs and environmental assessments. The Technical team will coordinate directly with State and Federals staff, and other parties as appropriate, to facilitate integration of the project description into ongoing and future programs.

Deliverables:

- ✓ Model results
- ✓ Summary project descriptions of these potential actions
- ✓ Summary list of infrastructure needed for implementation of potential actions
- ✓ Description of land management practices needed to sustain proposed actions
- ✓ Overall programmatic level project description

Task 3. Implementation Strategy

The Technical team will help identify potential funding sources and grant opportunities to aid with implementation of the identified actions and support the Association as it develops an overall strategy for their positioning and inclusion in future programs. The Technical team will also identify the funding sources and grant opportunities that best meet the parameters of the programmatic-level project description and are most likely to be secured by landowners if pursued. The Technical team will be available to support the Association with its outreach to State and water agency representatives to position the Project Description for integration into ongoing and future programs.

Deliverables:

- ✓ Meetings/telephone coordination and/or briefings
- ✓ Email correspondence and meeting notes, as applicable
- ✓ Summary of funding sources and grant opportunities

Budget

TASKS		
1.0	Kickoff & Coordination	$ 50,000
2.0	Technical Analyses	$ 100,000
3.0	Implementation Strategy	$ 25,000
	TOTAL BUDGET	$175,000

Floodplains Reimagined Technical Assistance Evaluation Criteria

Technical Assistance Request from the Sutter Bypass Butte Slough Water Users Association (Scope attached)

The purpose of this document is to provide evaluation criteria for the Floodplains Reimagined Steering Committee to evaluate the proposed projects for Floodplains Reimagined Technical Assistance.

The Steering Committee will evaluate the proposed project based on subjective evaluation of the criteria and give it one of the following grades:

1. Pass
2. Fail
3. Need more information

Highlighted in yellow below are the criteria meet by the Sutter Water Users Association's request.

Funded planning projects must meet the following criteria:

a. Eligibility
   Landowners of lands within the Floodplains Reimagined geographic scope are eligible to request technical assistance.
   Landowners are defined as those who own or manage land and water in the geographic scope and may include:
   a. Owners of private farms or ranches
   b. Recreational hunting clubs and preserves
   c. Tribes
   d. NGO landowners
   e. Public Agency landowners
   f. Authorized representatives of landowners

b. Planning projects only – such as:
   a. Development of project concepts
   b. Proof of concept plans
   c. Preliminary engineering plans
   d. Research studies and pilot studies to inform planning
   e. Development of agreements between landowners and sponsoring agencies

c. Project Type
   There will be no implementation projects such as construction or restoration.

   a. Floodplain reactivation projects
   b. Fish food production
   c. Removal of invasive plants
   d. Coordinated operations plan
   e. Modifying diversion infrastructure and/or operations
   f. Modifying river connection infrastructure and/or operations

g. Creating new river connections

d. Geographic scope – the land on which the project is proposed must be within the geographic scope of Floodplains Reimagined.

e. Objectives – The purpose of the proposed project must meet one or more of the Floodplains Reimagined objectives as follows:
    a. Improve floodplain connectivity during the winter and shoulder seasons including October – May.
    b. Planning to:
        i. Convey water from the Sacramento River to the floodplain or surrogate agricultural floodplain.
        ii. Drain water back into the Sacramento River.
        iii. Hold water on the floodplain or surrogate agricultural floodplain.
        iv. Protect neighboring properties from risk of inundation.
        v. Permanent restoration of floodplain habitat and connectivity in marginal or underutilized lands

f. Replicability
    a. Plans must be either replicable or the outcomes and lessons learned applicable to the rest of one of the following subregions within the geographic scope:
        i. Butte Basin
        ii. Sutter Bypass
        iii. Colusa Basin

g. Outcomes
    a. The funding must cover:
        i. planning project deliverables.
    b. The funding could cover:
        i. development of prototype agreement between the landowner and sponsoring agency for restoration and inundation activities
    c. The funding is not required to cover:
        i. further analysis of the project as it relates to replicability.