

**RECLAMATION DISTRICT NO. 1601  
TWITCHELL ISLAND  
BOARD OF TRUSTEES MEETING  
TUESDAY, NOVEMBER 21, 2023  
9:00 AM  
ENGINEER'S REPORT**

**I. PROJECT FUNDING AGREEMENT TW – 21 - 1.0 TIMES PROJECT**

- A. We had our pre-construction meeting Tuesday 11/14/23 for the TIMES Native Grass Seeding project. The contractor, Hanford ARC, is working on schedule and submittals and is expecting to mobilize the week of November 27th. Depending on rain (or lack thereof), they may have to irrigate using the two siphons along Sevenmile Slough. We've already been in touch with Jaime and will continue to coordinate with him as needed. The goal is to have the seeding done by December 31, 2023, and then there is a maintenance period until September 30th of next year.

**II. DELTA LEVEE SUBVENTIONS PROJECT -SPECIAL PROJECTS  
MULTI-BENEFIT PSP – SAN JOAQUIN RIVER SETBACK LEVEE  
REACH 6.**

- A. Review State of California Department of Water Resources correspondence dated 11/1/23 selecting the Districts Project for 2023 Projects Solicitation Package for Multi-Benefit Projects.

***EXHIBIT A: 11/1/23 DWR Correspondence.***

- B. Seek authorization of the Board of Trustees to accept the Project award and commence seeking a Project Funding agreement in the amount of \$15,000,000.00.
- C. Review Task List for our Task List for Reach 6

***EXHIBIT B: Task List for Reach 6.***

# Exhibit A

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**DEPARTMENT OF WATER RESOURCES**

DIVISION OF MULTIBENEFIT INITIATIVES

P.O. Box 942836

Sacramento, CA 94236-0001

11/1/2023



Ms. Linda Carter, Secretary  
Reclamation District No. 1601 (Twitchell Island)  
Post Office Box 2382  
Stockton, California 95201

**2023 Projects Solicitation Package for Multi-Benefit Projects**

Dear Ms. Carter:

The Projects Solicitation Package for Multi-Benefit Projects (PSP) was released on February 03, 2023, under the 2014 Delta Levees Special Flood Control Projects Guidelines for Providing Funding to Local Public Agencies. The California Department of Water Resources (DWR) received 17 eligible Concept Proposals in response to the PSP. Based on our review and evaluation of the 17 eligible Concept Proposals, Full Applications were solicited for 6 of the proposed projects.

We have completed our review and evaluation of the Full Applications and are pleased to inform you that your project has been selected for funding. Your agency may enter into an agreement with DWR to receive funding up to \$15,000,000 at a State Cost Share of 95 percent. If agreed to by your District, a Project Funding Agreement (PFA) will be prepared to provide the above funding for the following work:

As stated in your proposal, the objectives for this project are to accomplish landside improvements that increase the levee's resistance to erosion, provide better overall levee stability, and provide additional freeboard (increased levee eight) for an estimated wave run-up of 4.7 feet above the 100-year event water surface elevation. Landside improvements for this project will consist of the construction of the foundation berm and a new setback levee behind and attached to the existing levee. This project will also provide channel margin habitat along this stretch of the San Joaquin River (SJR). Waterside improvements for this project would create an assortment of channel margin habitats along the waterside of the SJR levee. The Waterside will be modified based on approximately 5 design options to create a mosaic of three different habitat types (tule, marsh and mudflat, riparian forest and scrub, and upland scrub and grassland.

As part of the process of preparing the PFA, we will review your agency's compliance with the Delta Levees Programs' (Special Projects and Subventions) requirements to verify that it is in good standing, with no outstanding compliance issues. If it is determined that your agency has not met all Program requirements, we will contact you to see if the matter can be resolved prior to execution of a PFA with DWR.

As the Program will fund projects with proposition 1 and/or proposition 84 bond funds, it has been determined by the California Department of Finance that bond funds are not to be placed in interest bearing accounts and upon advance funding request, a project funding schedule (to a minimum of 6 months) shall be provided to the Program.

Ms. Linda Carter  
11/1/2023

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If you have any questions, please contact me at (916) 820-7847 or via e-mail at [andrea.lobato@water.ca.gov](mailto:andrea.lobato@water.ca.gov)

Sincerely,



Andrea L. Lobato, P.E., Manager  
Delta Levees Program  
Division of Multi-Benefit Initiatives

cc:  KSN, Inc.   
711 North Pershing Avenue  
Stockton, California 95203

# Exhibit B

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Reclamation District No. 1601  
Twitchell Island

San Joaquin River Setback Levee – Reach 6

**Task List:**

1. Initial (Pre-PFA)
  - a. Approve PSP award by RD 1601 Board.
  - b. Confirm USACE 404 permit time extension (underway).
  - c. Solicit proposal from environmental consultant (GEI).
    - i. Biological / cultural monitoring
    - ii. Compensatory mitigation
      1. Waters of the U.S. - USACE (reexamine?)
      2. GGS habitat - USFWS
    - iii. Waterside habitat final design
  - d. Discuss funding cost share with Delta Conservancy .
  - e. Update cost estimate.
2. Project Funding Agreement (PFA)
  - a. Execute PFA.
  - b. Request advance funds.
  - c. Prepare and submit Scope of Work.
3. Phase 1 –Toe Berm
  - a. Project management
    - i. Negotiate funding agreement with Delta Conservancy.
    - ii. Subcontract with environmental consultant.
  - b. Environmental and permitting
    - i. Develop DSC consistency determination.
    - ii. Purchase compensatory mitigation credits.
  - c. Surveying & engineering
    - i. Perform updated topo survey.
    - ii. Finalize plans & specs.
  - d. Bidding and contract award
  - e. Construction
4. Phase 2 – Setback Levee (TBD)
5. Phase 3 – Habitat Development (TBD)

**Preliminary Cost Estimate (to be updated):**

Description	Amount	Percent
Phase 1 –Toe Berm	\$11,188,300	63.6%
Phase 2 – Setback Levee	\$4,268,700	24.3%
Phase 3 – Channel Margin Habitat	\$2,126,100	12.1%
<b>Total:</b>	<b>\$17,583,100</b>	
<i>Funding from DWR Delta Levees Special Projects</i>	\$15,000,000	85.3%
<i>Other funding (District, Delta Conservancy, etc.)</i>	\$2,583,100	14.7%

RECLAMATION DISTRICT NO. 1601  
 TWITCHELL ISLAND  
 SAN JOAQUIN RIVER SETBACK LEVEE PROJECT  
 REACH 6 - PRIORITY 1 - STA. 482+00 TO STA. 508+80  
 SACRAMENTO COUNTY, CALIFORNIA

OPINION OF PROBABLE COSTS

Item	Description	Qty	Unit	Unit Cost	Total Cost
<b>Construction</b>					
<i>Phase 1: Foundation Toe Berm</i>					
1.	Mobilization			5%	\$363,700
2.	Erosion Control			5%	\$363,700
3.	Clearing and Grubbing	16	AC	\$4,000	\$64,000
4.	12" Pipe	230	LF	\$25	\$5,800
5.	12" Perforated Pipe	1,540	LF	\$25	\$38,500
6.	Cleanout	10	EA	\$1,000	\$10,000
7.	Drain Rock	6,200	TN	\$40	\$248,000
8.	Relocate Existing Utility Pole	5	EA	\$15,000	\$75,000
9.	Import Fill	291,000	TN	\$23	\$6,693,000
10.	Reconstruct Existing Siphon	1	EA	\$65,000	\$65,000
11.	All-Weather Road AB (at Levee Toe)	1,400	TN	\$35	\$49,000
12.	Toe Ditch	2,400	LF	\$10	\$24,000
				<i>Subtotal:</i>	<i>\$7,999,700</i>
<i>Phase 2: Setback Levee</i>					
1.	Mobilization			5%	\$145,500
2.	Erosion Control			5%	\$145,500
3.	Import Fill	122,000	TN	\$23	\$2,806,000
4.	Reconstruct Existing Siphon	1	EA	\$33,000	\$33,000
5.	All-Weather Road AB (at Levee Crown)	2,000	TN	\$35	\$70,000
				<i>Subtotal:</i>	<i>\$3,200,000</i>
<i>Phase 3: Channel Margin Habitat</i>					
1.	Mobilization			5%	\$73,700
2.	Erosion Control			5%	\$73,700
3.	Earthwork and Erosion Protection	2,680	LF	\$400	\$1,072,000
4.	Planting	2,680	LF	\$150	\$402,000
5.	Habitat Establishment (1 year)			<i>(included in Planting item)</i>	
				<i>Subtotal:</i>	<i>\$1,621,400</i>
				<b>Construction Subtotal:</b>	<b>\$12,821,100</b>

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 REACH 6 - PRIORITY 1 - STA. 482+00 TO STA. 508+80  
 SACRAMENTO COUNTY, CALIFORNIA

OPINION OF PROBABLE COSTS

Item	Description	Qty	Unit	Unit Cost	Total Cost
<b>Management / Environmental / Engineering</b>					
1.	Project Management			2%	\$256,500
2.	Environmental and Permitting			0%	\$0
3.	Final Engineering - Phase 1			1%	\$80,000
4.	Final Engineering - Phase 2			5%	\$160,000
5.	Final Engineering - Phase 3			3%	\$48,700
6.	Bidding and Contract Award			1%	\$128,300
7.	Construction Mangement and Inspection			8%	\$1,025,700
8.	Mitigation			6%	\$769,300
<i>Management / Environmental / Engineering Subtotal:</i>					<b>\$2,468,500</b>
PROJECT SUBTOTAL:					\$15,289,600
CONTINGENCY (15%):					\$2,293,500
<b>PROJECT TOTAL:</b>					<b>\$17,583,100</b>

Notes:

1. All environmental, permitting, and preliminary engineering for the overall project will have been completed as part of DWR PFA No. TW-09-1.0.
2. Soft Costs include project management, final engineering, bidding and contract award, and construction management and inspection.
3. Mitigation costs are based on purchasing mitigation credits at an approved mitigation bank at a rate of ±\$150k per acre based on impacts to waters of the U.S. at a mitigation ratio of 1:1 and impacts to GGS habitat at a mitigation ratio of 3:1
4. Habitat establishment costs are based on the 1-year establishment period that begins immediately following the end of planting. A 3-year performance period will follow through a separate PFA.