


# San Jacinto River Authority Bear Branch Dam Federal Appropriations Request



**The Woodlands Township Board of Directors  
May 19, 2022**

PROJECT NAME:				PROJECT ID	FISCAL YEAR	DIVISION						
Bear Branch Soil Cement Repairs				BBSCR	2024-2026	Bear Branch						
PROJECT DESCRIPTION/JUSTIFICATION:				PROJECT MAP/PICTURE								
<p>Bear Branch Dam was constructed in the early 1980's and has a soil cement armoring system on the upstream side of the dam structure. Field inspections were completed in 2020 to document the condition of the soil cement armoring, which is a band approximately 50' across the back slope and extends on both sides of the emergency spillway. The engineering firm that conducted the field inspection recommends replacing the soil cement within the next five (5) years.</p> <p>For planning purposes, it is estimated that the soil cement will need rehabilitation starting in FY 2025, which is the basis for this project. The rehabilitation includes removing the existing soil cement and replacing it with reinforced concrete.</p> <p>With the replacement having similar construction requirements as the service spillway replacement (See project BBSSR), it is recommended that SJRA combine the soil cement rehabilitation with the service spillway replacement to ensure cost effectiveness.</p>												
PROJECT SCHEDULE												
Initiate Cons. Selection:		FY 2023 - Q3		<input checked="" type="checkbox"/> CSP	<input type="checkbox"/> O&M							
PSA/WO Issued:		FY 2024 - Q1		<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Bonds							
Final Proposal Docs:		FY 2024 - Q4			<input type="checkbox"/> R&R							
Proposals/Bids Received:		FY 2024 - Q4			<input checked="" type="checkbox"/> Other							
Constr. Contract to Board:		FY 2025			Loan							
Substantial Completion:		FY 2026		<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed							
BUDGET*	TOTAL	PREVIOUS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Planning/Permitting/PER	\$ 22,000	\$ -	\$ -	\$ 22,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 214,000	\$ -	\$ -	\$ 214,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 1,424,000	\$ -	\$ -	\$ -	\$ 950,000	\$ 474,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 210,000	\$ -	\$ -	\$ -	\$ 140,000	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 1,870,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 236,000</b>	<b>\$ 1,090,000</b>	<b>\$ 544,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

\*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Bear Branch Service Spillway Replacement	BBSSR	2024-2026	Bear Branch

**PROJECT DESCRIPTION/JUSTIFICATION:**

The Bear Branch service spillway has experienced increasing surface deterioration as well as a lack of effective joints. As the conditions worsen along the service spillway and the plunge pool it is indicative that replacement may be necessary.

With the replacement having similar construction requirements as the soil cement replacement (See project BBSCR), it is recommended that SJRA combine the service spillway replacement with the soil cement repairs to ensure cost effectiveness.

The replacement would include the service spillway and the plunge pool, with a design potentially including a simplified geometry with vertical walls and more effective joints that include sufficient clear cover and water stops. A baffled chute and a stilling basin with an end sill would provide energy dissipation and provide minimal changes to the emergency spillway.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: FY 2023 - Q3	<input checked="" type="checkbox"/> CSP	<input type="checkbox"/> O&M
PSA/WO Issued: FY 2024 - Q1	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: FY 2024 - Q4		<input type="checkbox"/> R&R
Proposals/Bids Received: FY 2024 - Q4		<input checked="" type="checkbox"/> Other
Constr. Contract to Board: FY 2025		Loan
Substantial Completion: FY 2026	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Planning/Permitting/PER	\$ 26,000	\$ -	\$ -	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 335,000	\$ -	\$ -	\$ 335,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 2,234,000	\$ -	\$ -	\$ -	\$ 1,490,000	\$ 744,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 335,000	\$ -	\$ -	\$ -	\$ 223,000	\$ 112,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 2,930,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 361,000</b>	<b>\$ 1,713,000</b>	<b>\$ 856,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

\*Budget includes contingency.