



Legislation Details (With Text)

File #: 2022-0730
Type: Consent Calendar Item **Status:** Passed
File created: 6/22/2022 **In control:** Sonoma County Water Agency
On agenda: 8/2/2022 **Final action:** 8/2/2022
Title: Engineering and Design of River Diversion Structure Modernization Project
Sponsors: Sonoma County Water Agency
Indexes:
Attachments: 1. Summary Report, 2. Resolution, 3. Selection Memo

Date	Ver.	Action By	Action	Result
8/2/2022	1	Board of Supervisors	Approved as recommended	Pass

To: Board of Directors, Sonoma County Water Agency
Department or Agency Name(s): Sonoma County Water Agency
Staff Name and Phone Number: Hannah Camp 707-524-6435
Vote Requirement: 4/5th
Supervisory District(s): Fifth

Title:
Engineering and Design of River Diversion Structure Modernization Project

Recommended Action:

- Authorize Sonoma County Water Agency's General Manager to execute an agreement with Brelje & Race Engineering Consultants, in a form approved by County Counsel, for engineering and design services through August 30, 2027, in the not-to-exceed amount of \$456,900.
- Adopt a Resolution Authorizing an Adjustment to the Board Adopted Budget for Fiscal Year 2022-2023 for the Common Facilities Fund in the amount of \$90,190, for the Engineering and Design of River Diversion Structure Modernization Project.

(4/5th Vote Required) (Fifth District)

Executive Summary:

Sonoma County Water Agency's (Sonoma Water) River Diversion Structure (RDS) facility, which was originally constructed in 1975 for supplementary recharging of the alluvial aquifer, has reached the end of its useful life and requires replacement.

Discussion:

HISTORY OF ITEM/BACKGROUND

Sonoma Water's water supply is largely comprised of water drawn from the Russian River (River). Sonoma Water has six collector wells at the River that extract groundwater from an alluvial aquifer that is adjacent to the River. The River naturally recharges the alluvial aquifer that feeds these collector wells, but in 1975 Sonoma Water constructed the RDS as a supplemental recharge facility. The RDS diverts water from the River into a series of infiltration ponds that recharge the alluvial aquifer that feeds collectors 3, 4, and 5.

The RDS is operated during the dry season (approximately April through October) in conjunction with the Mirabel inflatable dam (Dam). The Dam increases the water elevation/hydraulic head in the river so that the RDS pumps can operate and divert water from the River to the infiltration ponds. During the wet season (approximately October through April), the RDS is not operated because water levels are high and can potentially inundate the infiltration ponds. The equipment in the RDS has reached the end of its useful life and needs to be replaced.

The equipment in need of replacement includes, but is not limited to, the following: medium-voltage step-down transformer; motor control center; three vertical turbine pumps; facility lighting; heating, ventilation, and air conditioning; and a programmable logic controller.

SELECTION PROCESS

Brelje & Race Engineering Consultants (Consultant) was selected for the subject work from a competitive selection process because Consultant meets the criteria listed in the solicitation requirements and has demonstrated experience working on projects with similar scope. Attached is a memo that explains the competitive selection process.

Sonoma Water may seek to amend or enter into subsequent agreement(s) with Board approval if required, relying upon this competitive selection process, after the preliminary or initial work is completed for the Project.

SERVICES TO BE PERFORMED

Under the proposed agreement, Consultant will conduct Project meetings; prepare a design report; provide complete engineering design and construction documents, including specifying new equipment to replace the existing equipment, redesigning the existing RDS equipment layout to accommodate the new equipment, designing new ingress and egress to and from the RDS, and optimizing the operations with a new programmable logic controller; provide assistance during bidding and construction of the Project; and other related services.

The cost of services will not exceed \$456,900; the term end date is August 30, 2027.

The agreement includes two options for Sonoma Water to extend this agreement for a period of one year each by providing written notice to consultant thirty days in advance of the expiration date of the agreement and of the first extension option.

Strategic Plan:

County of Sonoma Strategic Plan Alignment:

This item directly supports Sonoma County's Five-year Strategic Plan and is aligned with the following pillar, goal, and objective.

Pillar: Resilient Infrastructure

Goal: Goal 2: Invest in capital systems to ensure continuity of operations and disaster response.

Objective: Objective 1: Align the Board of Supervisor's strategic priorities, policy, and operational goals with funding and resources.

Sonoma Water Strategic Plan Alignment:

Water Supply and Transmission System, Goal 2: Maintain and improve the reliability of the Water Transmission System.

Information Technology, Goal 2: Modernize remote equipment control and monitoring capabilities to improve efficiency and meet industry standards.

The River Diversion Structure Modernization project will improve the reliability of the water transmission system by replacing aging infrastructure with resilient and redundant equipment. The controls for the system will be modernized to allow for additional data to be collected that will be used to improve our efficiency and operations.

Prior Board Actions:

N/A

FISCAL SUMMARY

Expenditures	FY 22-23 Adopted	FY23-24 Projected	FY 24-25 Projected
Budgeted Expenses	\$366,710		
Additional Appropriation Requested	\$90,190		
Total Expenditures	\$456,900		
Funding Sources			
General Fund/WA GF			
State/Federal			
Fees/Other	\$366,710		
Use of Fund Balance	\$90,190		
Contingencies			
Total Sources	\$456,900		

Narrative Explanation of Fiscal Impacts:

Budgeted amount of \$366,710 is available from FY 2022/2023 appropriations for the Common Facilities Fund. Additional appropriations in the amount of \$90,190 from the Common Facilities Fund, which is funded by water rates, are required to process this expense. With Board approval, unspent appropriations budgeted in FY 2021/2022 and rolled over to FY 2022/2023 will be made in the Common Facilities Fund pursuant to the attached budgetary resolution.

Staffing Impacts:			
Position Title (Payroll Classification)	Monthly Salary Range (A-I Step)	Additions (Number)	Deletions (Number)

Narrative Explanation of Staffing Impacts (If Required):

N/A

Attachments:

Attachment 1: Resolution

Attachment 2: Selection Memo

Related Items “On File” with the Clerk of the Board:

None.