



COUNTY OF SONOMA

575 ADMINISTRATION
DRIVE, ROOM 102A
SANTA ROSA, CA 95403

SUMMARY REPORT

Agenda Date: 7/11/2023

To: Board of Directors, Sonoma Valley County Sanitation District
Department or Agency Name(s): Sonoma Valley County Sanitation District
Staff Name and Phone Number: Kevin Booker 707-521-1865
Vote Requirement: 4/5th
Supervisorial District(s): First

Title:

Treatment Plant Backup Chemical Evaluation and Hydraulics Investigation

Recommended Action:

- A) Authorize Sonoma County Water Agency's General Manager acting on behalf of Sonoma Valley County Sanitation District to execute an agreement with Brown and Caldwell, in a form approved by County Counsel, for a treatment plant backup chemical evaluation and hydraulics investigation through March 31, 2024, in the not-to-exceed amount of \$100,809.
- B) Adopt a Resolution authorizing adjustments to the Board Adopted Budget for FY 2023/2024 for the Sonoma Valley County Sanitation District Operations Fund in the amount of \$100,809. (4/5th Vote Required)

Executive Summary:

Brown and Caldwell (Consultant) will assist Sonoma Valley County Sanitation District (District) with an evaluation of the infrastructure required to replace the existing gaseous chemicals used for disinfecting and dechlorinating treatment plant effluent with liquid chemicals, investigation into hydraulic issues believed to be associated with air entrainment in the pumping system associated with the R5 reservoir, and an assessment of the existing R5 pump station to determine if sufficient capacity exists to serve potential new recycled water users identified by District.

Discussion:

HISTORY OF ITEM/BACKGROUND

Currently, District treatment plant's effluent is disinfected using chlorine gas and then dechlorinated using sulfur dioxide gas. Supply chain issues in recent years have made it more challenging to maintain a consistent supply of these chemicals, which are vital to the operation of the treatment system. In order to diversify the options for chemical procurement, District is considering the use of liquid sodium hypochlorite and sodium bisulfite for disinfection and dechlorination, respectively.

In addition to the treatment chemical change, the recycled water pipeline from the R5 reservoir currently experiences issues including too-frequent pump cycling and flow meters that do not register flow accurately. These issues are believed to be associated with air entrainment.

Finally, new users have been identified who could potentially utilize recycled water stored in the R5 reservoir.

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The work under this agreement will assist District with an evaluation of the infrastructure required to replace the existing gaseous chemicals used for disinfecting and dechlorinating treatment plant effluent with liquid chemicals, investigation into hydraulic issues believed to be associated with air entrainment in the pumping system associated with the R5 reservoir, and an assessment of the existing R5 pump station to determine if sufficient capacity exists to serve potential new users identified by District.

SELECTION PROCESS

Consultant was selected from a list of qualified consultants developed from a competitive selection process. Attached is a memo that explains the competitive selection process.

Consultant was selected for the subject work because of its knowledge of District’s treatment plant, in addition to knowledge and understanding of recycled water facilities.

District 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.

SERVICES TO BE PERFORMED

Under the agreement, Consultant will provide a backup chemical storage and feed evaluation, a recycled water pipeline troubleshooting investigation, and an R5 pump station evaluation to determine if adequate capacity is available to serve new recycled water users using existing pumping equipment.

The cost of services will not exceed \$100,809. This agreement covers services rendered from March 1, 2023, to March 31, 2024.

The agreement includes authorization for the General Manager to make changes to lengthen time schedules or make minor modifications to the scope of work, which do not increase the amount paid under the agreement, in a form approved by County Counsel.

The agreement includes two options for District to extend the term 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. The extension will be formalized in an amended agreement or amendment signed by District and Consultant.

Sonoma County Strategic Plan Alignment:

N/A

Sonoma Water Strategic Plan Alignment

Wastewater Treatment and Water Reuse, Goal 1: Improve operational reliability of wastewater treatment and water reuse systems.

This investigation will assist District in providing a reliable recycled water supply to users and compliance with District’s wastewater permit.

Racial Equity:

Was this item identified as an opportunity to apply the Racial Equity Toolkit?

No

Prior Board Actions:

None.

FISCAL SUMMARY

Expenditures	FY 23-24 Adopted	FY24-25 Projected	FY 25-26 Projected
Budgeted Expenses			
Additional Appropriation Requested	\$100,809		
Total Expenditures	\$100,809		
Funding Sources			
General Fund/WA GF			
State/Federal			
Fees/Other	\$100,809		
Use of Fund Balance			
Contingencies			
Total Sources	\$100,809		

Narrative Explanation of Fiscal Impacts:

Additional appropriations in the amount of \$100,809 from the Sonoma Valley County Sanitation District Operations Fund are required to process this expense. With Board approval, unspent appropriations budgeted in FY 2022/2023 and rolled over to FY 2023/2024 will be made in the Sonoma Valley County Sanitation District Operations 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:

- Resolution
- Selection Memo

Related Items "On File" with the Clerk of the Board:

None.