



Agenda Date: 8/4/2021
Agenda Placement: 7K

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors

FROM: Timothy Healy - General Manager
NS-Technical Services/Engineer

REPORT BY: Karl Ono, Associate Engineer - (707) 258-6013

SUBJECT: Award Task Order for the North Napa Siphon Gate Replacement Project (CIP 21718) Design Services

RECOMMENDATION

Authorize the Purchasing Agent to execute Task Order 46 with Brown and Caldwell to provide engineering design services for the North Napa Siphon Gate Replacement Project (CIP 21718) in the amount of \$96,077.

EXECUTIVE SUMMARY

The North Napa Siphon Gate Replacement Project will replace three existing flow control slide gates within the inlet structure of the North Napa Siphon that have reached the end of their useful lives. These components serve a critical role for operation and maintenance, allowing each of the three individual siphon pipelines to be isolated for repairs and to increase flow velocities and facilitate self-cleaning. As part of the design process, other components including odor control, hatch replacement, and internal coating repair/replacement will also be considered and potentially incorporated into the project.

During initial planning and review of the project scope, NapaSan staff determined that the project should be constructed during late summer 2022. During this time period, weather will be favorable and sewer flows through the siphon inlet structure will be at a minimum, reducing the cost and complexity of bypass required to facilitate construction.

Brown and Caldwell was selected as the most qualified firm to design the project due to their previously completed evaluation and preliminary design documents for this project. Under this Task Order, Brown and Caldwell will prepare construction bid documents. The design will begin in August 2021.

NapaSan staff will request that the Board approve the project in winter 2021 for bidding. Construction is scheduled for late summer/early fall 2022.

FISCAL & STRATEGIC PLAN IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The project is budgeted in the FY 2021/22 and the proposed FY 2022/23 CIP budget.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The existing assets need to be repaired or replaced and Brown and Caldwell has previous design experience with these assets.
Is the general fund affected?	No
Future fiscal impact:	Construction will occur in FY 2022/23.
Consequences if not approved:	Staff would design the improvements which would limit NapaSan's ability to complete other scheduled projects.
Additional Information:	None.

ENVIRONMENTAL IMPACT

None.

BACKGROUND AND DISCUSSION

The North Napa Siphon was constructed in 2007, and conveys wastewater flow across the Napa River between Water Street and First Street, approximately 500 feet east of Soscol Avenue. The inlet structure controls flow between two 30-inch siphons and one 18-inch siphon with wall mounted slide gates. Corrosion of the original aluminum slide gates has made them inoperable, and the original gates have recently been removed by NapaSan maintenance staff. This project will replace the original slide gates with new corrosion resistant fiberglass reinforced plastic slide gates.

SUPPORTING DOCUMENTS

A . Brown & Caldwell Task Order 46

Napa Sanitation District: Approve

Reviewed By: Timothy Healy