



Santa Clara Valley Water District

File No.: 21-0619

Agenda Date: 6/22/2021

Item No.: 3.4.

BOARD AGENDA MEMORANDUM

SUBJECT:

Approve the Agreement with MBK Engineers for the CalSim 3 Modeling to Support Climate Impact Analysis on Water Supply Project, Project No. 91151001, CAS File No. 5173, for a Not-to-exceed Fee of \$350,000.

RECOMMENDATION:

Approve the agreement with MBK Engineers for CalSim 3 Modeling to Support Climate Impact Analysis on Water Supply for a not-to-exceed fee of \$350,000.

SUMMARY:

To effectively perform long-term water supply planning, Santa Clara Valley Water District (Valley Water) needs to account for climate change and regulatory uncertainty. CalSim modeling is required for that analysis because it is the only model for the imported water system that can provide Valley Water future allocation predictions. Valley Water does not have a CalSim modeler in-house and requires a consultant with the expertise to complete the services needed.

The primary goal of this project is to quantify potential climate change and regulatory impacts to Valley Water's CVP and SWP allocations. The consultant will use CalSim 3 to provide imported water delivery data for input to Valley Water's water supply planning model (WEAP) by:

- A. Developing modeling scenarios that evaluate the impacts of potential future regulatory requirements on Valley Water's CVP and SWP deliveries at mid- and late century
- B. Forecasting the joint impacts of future climate and regulations on Valley Water's imported water supplies
- C. Providing and interpreting CalSim 3 modeling results to support Valley Water's climate impact analysis and WEAP modeling

Consultant Selection Process

On January 14, 2021, a Request for Proposal (RFP) for CalSim 3 Modeling to Support Climate Impact Analysis on Water Supply was published on Valley Water's Contract Administration System (CAS). The RFP outreach notification was sent to 121 firms that are either registered in CAS under

expertise code HE20 - Water Supply Optimization Modeling, and/or registered with the California Department of General Services. Valley Water received proposals from two consultant firms, MBK Engineers and Stantec Consulting, Inc. An Evaluation Committee (EC) of Valley Water staff, consisting of two imported water subject matter experts and two water supply modeling subject matter experts, ranked the written proposals. Both firms, MBK Engineers and Stantec Consulting, Inc. were invited and participated in subsequent virtual oral first and second interviews conducted on March 10, 2021 and April 22, 2021, respectively.

Based on the combined (written and oral) rating scores, the EC recommended staff to proceed with the highest ranked firm, MBK Engineers., for contract negotiations.

FINANCIAL IMPACT:

The Agreement with MBK Engineers for CalSim 3 Modeling to Support Climate Impact Analysis on Water Supply has a not-to-exceed amount of \$350,000. Funding for this item is included in the Fiscal Year 2021 budget under project 91151001 Water Conservation Program.

CEQA:

The recommended action to approve the Agreement does not constitute a project under the California Environmental Quality Act (CEQA) because it does not have the potential to result in direct or reasonably foreseeable indirect physical change in the environment.

ATTACHMENTS:

Attachment 1: Agreement

UNCLASSIFIED MANAGER:

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